### Catalog | 2013

# PowerLogic<sup>™</sup> Factory Assembled Equipment

Improve the speed and savings of your system startup

For metering, communications, and control









## Make the most of your energy<sup>™</sup>



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PowerLogic Factory Assembled Equipment

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### Schneider Electric is the source for quality Factory Assembled Equipment

A wide range of designs are available for metering, communication, and control applications to simplify new and retrofit installations. Our equipment is professionally crafted, factory tested, and pre-wired. It is designed to order as a free-standing or wall-mounted system that will greatly improve the speed of your system startup. This solution is backed by our Square  $D^{TM}$  by Schneider Electric quality standard of excellence.

Our factory assembled equipment units are available for your entire PowerLogic<sup>™</sup> energy and power management system or automated power system controls project — from the service entrance for revenue metering to high density tenant sub-metering and just about everything in between. If you don't see what you had in mind and would like to special order a custom enclosure, we offer design services to accommodate your needs.

#### Advantages:

- Designed to current NEC and UL standards
- Equipped with hazard and safety labels
- UL/CUL 508A listed whenever possible
- Efficient panel layout and well marked terminals reduce wiring errors and needless troubleshooting

Engineering, planning, and maintenance

• Complete with necessary documentation and mounting hardware for quick and easy installation

|  |  | Meter (Qty)    | Display | Type 12        | Type 4X      | Type 1         | Type 3R      |  |  |  |  |
|--|--|----------------|---------|----------------|--------------|----------------|--------------|--|--|--|--|
|  | Service Entrance/Utility Revenue   |                |         |                |              |                |              |  |  |  |  |
|  | ION8600/ION8650/E5600 meter (1)  |                | I       |                |              |                | 6-7          |  |  |  |  |
| Service entrances and on-site generation | Main/Critical Circuit  |                |         |                |              |                |              |  |  |  |  |
|  | CM4000T Series circuit monitor (1-4)   |                | R       | -8             | )            |                |              |  |  |  |  |
|  | ION7550/ION7650 Series meter (1-4)   |                | R       |                | 10           | -11            |              |  |  |  |  |
|  | Main and Multiple Feeders  |                |         |                |              |                |              |  |  |  |  |
|  | CM4000 Series circuit monitors (1) + PM820 power meter (1  | -8)            | R + R   | 12-            | 13           |                |              |  |  |  |  |
|  | ION7550/ION7650 Series meters (1) + ION6200 Series meter   | er (1-8)       | R       |                | 14           | -15            |              |  |  |  |  |
| Power mitigation and main power          | Secondary Mains  |                |         |                |              |                |              |  |  |  |  |
| distribution equipment                   | ION7300 Series meter (1-4)   |                | l or R  | 16-1           | 17           |                |              |  |  |  |  |
|  | Feeders  |                |         |                |              |                |              |  |  |  |  |
|  | ION6200 Series meter (1-4)   |                | R       | 18-1           | 19           |                |              |  |  |  |  |
|  | PM820 power meter (1-4)  |                | R       | 20-2           | 21           |                |              |  |  |  |  |
|  | High Density Metering  |                |         | ·              |              |                |              |  |  |  |  |
|  |  | 1              |         | L              | ight Industi | ial Applicatio | ons          |  |  |  |  |
| PDUs and dataservers                     | ION6200 Series power meter (1, 2, 4, 6, 8, 10, 12)<br>PM800 Series power meter (1, 2, 4, 6, 8, 10, 12)                             |                | R<br>R  |                |              | 24-25          |              |  |  |  |  |
|  |  |                |         | Con            | nmercial Bu  | ilding Applic  | 1            |  |  |  |  |
|  | HDM – ION6200 Series power meter (1 or 4)<br>HDM – PM700 Series power meter (1, 4, 8, 16)<br>HDM – PM210 power meter (1, 4, 8, 16) |                |         |                |              | 26-27          | 26-27        |  |  |  |  |
|  | Multiple circuit meter   |                | R or N  | 28-2           | 29           |                |              |  |  |  |  |
|  | E5600 Series class 200   |                |         |                |              |                | 30-3-        |  |  |  |  |
|  | Communications   | Communications |         |                |              |                |              |  |  |  |  |
|  | EGX (1)<br>Ethernet switch (1) + EGX (1-3)   |                | N       | 32-3           | 33           |                |              |  |  |  |  |
| Processes, lines, machines, or equipment | ION7550RTU (1-4)   |                | l or N  | 34-3           | 35           | (//////        |              |  |  |  |  |
|  | Niobrara Research and Development (NR&D) (1)   |                | N       | 36-3           | 37           |                |              |  |  |  |  |
|  | Ethernet (managed and unmanaged copper of fiber)   |                | N       | 38-3           | 39           |                |              |  |  |  |  |
|  | Touchscreen and Kiosk (HMI or PC)  |                |         | 40-41          |              |                |              |  |  |  |  |
|  | Custom Enclosures  |                |         | r r            |              |                |              |  |  |  |  |
|  | Controls   |                |         |                | 4            | 2-43           |              |  |  |  |  |
|  | Drawout Retrofit Cradles   |                |         |                |              | 44-47          |              |  |  |  |  |
|  | PM800 Series power meter   |                | I       |                |              |                |              |  |  |  |  |
| Tenants, departments, and subcontractors | ION7300 Series power meter<br>ION6200 Series power meter   |                |         |                |              |                |              |  |  |  |  |
| •  | * ION6200 Only   |                | 1       | <u>[//////</u> | //////       | <u>//////</u>  | <u>/////</u> |  |  |  |  |

PowerLogic Factory Assembled Equipment

Consult factory representative for special order.

I = integrated display R = remote display N = No display

## Service Entrance/Utility Revenue

### PowerLogic ION8600/ION8650/E5600 **Factory Assembled Enclosures**

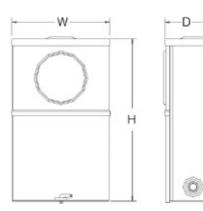
Type 3R

### **Description:**

The ION8600/ION8650/E5600 Series socket meter enclosure is an ideal metering solution for monitoring electrical distribution networks, service entrances, and substations requiring revenue accuracy and power quality analysis capabilities. This industrial enclosure is UL listed and equipped with pad-lockable latch and removable door. Multiple ION8600 meters can be networked together via Ethernet or RS-485 using Modbus™, ION™, or other industry standard communication protocols. Multiple E5600 can be networked together via RS-485 using Modbus or other industry standard communication protocols.

#### Features:

- Assemblies include meter and devices wired to terminal blocks, voltage disconnect, and current transformer (CT) shorting block or test switch.
- Serial communications are available for all E5600 units.
- Serial and Ethernet communications are options for all ION8600 units.
- Digital Input/Output (I/O) options for all units are available.
- Units are available with optional 10-pole test switch installed for voltage and CT testing and calibration.
- Units are available with optional built in bar-type CTs installed (transocket lever bypass).
- Tailored to any meter system voltage type:
- 208Y/120V, 480Y/277V, and 600Y/347V Wye.
- 240V, 480V, and 600V Delta.
- Supports single-voltage sources for outdoor (Type 3R) applications.
- Wall mountable and easy to install using concealed holes in the back of the enclosure.
- Galvanized carbon steel construction with industry standard ANSI 61 gray powder-coat finish.
- Custom engraved nameplates are available for all units.



Enclosure Dimensions - see ordering information.



### Service Entrance/Utility Revenue

### Ordering information

|          | Fa   | actor  | y Ass  | sembled: Type 3R 5600, 8600, and 8650 Class 20 Transformer Rated Meter Enclosures   |                              |
|----------|--|--|--|---|------------------------------|
|          | Order C  | ode  |  | Description   |                              |
|          |  |  |  | <ul> <li>Industrial Type 3R meter enclosure UL Listed (meter(s) included in pricing)</li> <li>Nameplates available upon request (provide nameplate schedule with order)</li> <li>All enclosures ring type with 2 piece</li> <li>Typical lead time is 6 weeks for this</li> <li>Enclosures are equipped with pad-loc</li> </ul>  | offering                     |
| Meter    |  |  |  | Meter Type – price is on a per enclosure basis  |                              |
| 5600     |  |  |  | E5600 form 9S meter   |                              |
| 5600     |  |  |  | E5600 form 36S meter  |                              |
| 860A     |  |  |  | ION8600 form 9S feature set A meter   |                              |
| 860A     |  |  |  | ION8600 form 35S feature set A meter  |                              |
| 860A     |  |  |  | ION8600 form 36S feature set A meter  |                              |
| 860B     |  |  |  | ION8600 form 9S feature set B meter   |                              |
| 860B     |  |  |  | ION8600 form 35S feature set B meter  |                              |
| 860B     |  |  |  | ION8600 form 36S feature set B meter  |                              |
| 860C     |  |  |  | ION8600 form 9S feature set C meter   |                              |
| 860C     |  |  |  | ION8600 form 35S feature set C meter  |                              |
| 860C     |  |  |  | ION8600 form 36S feature set C meter  |                              |
| 865A     |  |  |  | ION8650 form 9/36S feature set A meter  |                              |
| 865A     |  |  |  | ION8650 form 35S feature set A meter  |                              |
| 865B     |  |  |  | ION8650 form 9/36S feature set B meter  |                              |
| 865B     |  |  |  | ION8650 form 35S feature set B meter  |                              |
| 865C     |  |  |  | ION8650 form 9/36S feature set C meter  |                              |
| 865C     |  |  |  | ION8650 form 35S feature set C meter  |                              |
|          | Enclosu  | ire Typ  | e and  | d Meter Quantity – indoor/outdoor applications – Type 3R  |                              |
| ļ _,     | A0   |  |  | Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1   | 25 in                        |
| B0<br>C0 |  |  |  | Type 3R enclosure with 1 form 35S (8 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1   | 25 in.                       |
|          |  |  |  |   |                              |
| _        |  | -  |  | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1  |                              |
|          | Enclosı<br>Bar type                                  | e CTs  | and n  |   |                              |
|          | Enclosı<br>Bar type                                  | e CTs  | and n  | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>neutral bar (if applicable) are located behind a protected swing door   | 25 in.                       |
|          | Enclosı<br>Bar type<br>Suppor                        | e CTs  | and n  | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>leutral bar (if applicable) are located behind a protected swing door<br>s 100, 200, 300, and 400:5 – ratios must be specified with order   | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs<br>ts CT i   | and n<br>ratios  | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>neutral bar (if applicable) are located behind a protected swing door<br>s 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13   | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs<br>ts CT i   | and n<br>ratios  | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>leutral bar (if applicable) are located behind a protected swing door<br>is 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13   | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs<br>ts CT i<br>eter S   | and n<br>ratios<br>ystem   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>teutral bar (if applicable) are located behind a protected swing door<br>s 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13   | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs<br>ts CT i<br>eter S   | and n<br>ratios<br>ystem   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>neutral bar (if applicable) are located behind a protected swing door<br>a 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G<br>Three-phase  | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs<br>ts CT i<br>eter S<br>Volta  | and n<br>ratios<br>ystem   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>leutral bar (if applicable) are located behind a protected swing door<br>is 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G<br>Three-phase<br>Disconnect and Control Power – price is on a per enclosure basis  | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs i<br>ts CT i<br>eter S<br>Volta  | and neratios   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R feutral bar (if applicable) are located behind a protected swing door is 100, 200, 300, and 400:5 – ratios must be specified with order Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13 Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G Three-phase Disconnect and Control Power – price is on a per enclosure basis (1) 3-pole fusible disconnect provided for meter protection – meter powered off of socket blades (1) 3-pole fusible disconnect provided for meter protection with separate (1) 1-pole circuit breaker provided for  | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs<br>ts CT i<br>eter S<br>Volta  | and neratios   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>reutral bar (if applicable) are located behind a protected swing door<br>is 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G<br>Three-phase<br>Disconnect and Control Power – price is on a per enclosure basis<br>(1) 3-pole fusible disconnect provided for meter protection – meter powered off of socket blades<br>(1) 3-pole fusible disconnect provided for meter protection with separate (1) 1-pole circuit breaker provided for<br>(65-120 VAC, 80-160 VDC) auxillary control power   | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTS is CT is constructed by the second sec | and neratios<br>ystem<br>age D   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>neutral bar (if applicable) are located behind a protected swing door<br>is 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G<br>Three-phase<br>Disconnect and Control Power – price is on a per enclosure basis<br>(1) 3-pole fusible disconnect provided for meter protection – meter powered off of socket blades<br>(1) 3-pole fusible disconnect provided for meter protection with separate (1) 1-pole circuit breaker provided for<br>(65-120 VAC, 80-160 VDC) auxillary control power<br>horting Block – price is on a per enclosure basis  | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs is CT is consistent of the constant of the con | ystem<br>age D<br>CT Sh  | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>neutral bar (if applicable) are located behind a protected swing door<br>is 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G<br>Three-phase<br>Disconnect and Control Power – price is on a per enclosure basis<br>(1) 3-pole fusible disconnect provided for meter protection – meter powered off of socket blades<br>(1) 3-pole fusible disconnect provided for meter protection with separate (1) 1-pole circuit breaker provided for<br>(65-120 VAC, 80-160 VDC) auxillary control power<br>horting Block – price is on a per enclosure basis<br>4-pole CT shorting block to accommodate 2 CTs (form 9S, 35S)   | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs is CT  | and n<br>ratios<br>ystem<br>age D<br>CT Sr<br>A<br>B   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>reutral bar (if applicable) are located behind a protected swing door<br>is 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G<br>Three-phase<br>Disconnect and Control Power – price is on a per enclosure basis<br>(1) 3-pole fusible disconnect provided for meter protection – meter powered off of socket blades<br>(1) 3-pole fusible disconnect provided for meter protection with separate (1) 1-pole circuit breaker provided for<br>(65-120 VAC, 80-160 VDC) auxillary control power<br>horting Block – price is on a per enclosure basis<br>4-pole CT shorting block to accommodate 2 CTs (form 9S, 35S)<br>6-pole CT shorting block to accommodate 3 CTs (form 9S, 35S, 36S)  | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs is CT  | and n ratios ystem age D CT SH A B C D   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>reutral bar (if applicable) are located behind a protected swing door<br>is 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G<br>Three-phase<br>Disconnect and Control Power – price is on a per enclosure basis<br>(1) 3-pole fusible disconnect provided for meter protection – meter powered off of socket blades<br>(1) 3-pole fusible disconnect provided for meter protection with separate (1) 1-pole circuit breaker provided for<br>(65-120 VAC, 80-160 VDC) auxillary control power<br>horting Block – price is on a per enclosure basis<br>4-pole CT shorting block to accommodate 2 CTs (form 9S, 35S)<br>6-pole CT shorting block to accommodate 3 CTs (form 9S, 35S, 36S)<br>8-pole CT shorting block to accommodate 4 CTs (form 39S, 76S)   | 25 in<br>.25 in              |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs is CT  | and n ratios ystem age D CT SH A B C D   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>eutral bar (if applicable) are located behind a protected swing door<br>5 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>in Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G<br>Three-phase<br>Disconnect and Control Power – price is on a per enclosure basis<br>(1) 3-pole fusible disconnect provided for meter protection – meter powered off of socket blades<br>(1) 3-pole fusible disconnect provided for meter protection with separate (1) 1-pole circuit breaker provided for<br>(65-120 VAC, 80-160 VDC) auxillary control power<br>horting Block – price is on a per enclosure basis<br>4-pole CT shorting block to accommodate 2 CTs (form 9S, 35S)<br>6-pole CT shorting block to accommodate 3 CTs (form 9S, 35S)<br>8-pole CT shorting block to accommodate 4 CTs (form 39S, 76S)<br>10-pole Test switch to accommodate 3 CTs and phase voltages (form 9S, 35S, 36S)<br>Digital and Analog I/O Wiring – price is on a per enclosure basis   | 25 in.<br>.25 in.            |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs is CT  | and n nations  | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>entral bar (if applicable) are located behind a protected swing door<br>s 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>in <b>Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G</b><br>Three-phase<br>Disconnect and Control Power – price is on a per enclosure basis<br>(1) 3-pole fusible disconnect provided for meter protection – meter powered off of socket blades<br>(1) 3-pole fusible disconnect provided for meter protection with separate (1) 1-pole circuit breaker provided for<br>(65-120 VAC, 80-160 VDC) auxillary control power<br>horting Block – price is on a per enclosure basis<br>4-pole CT shorting block to accommodate 2 CTs (form 9S, 35S)<br>6-pole CT shorting block to accommodate 3 CTs (form 9S, 35S, 36S)<br>8-pole CT shorting block to accommodate 3 CTs (form 39S, 76S)<br>10-pole Test switch to accommodate 3 CTs and phase voltages (form 9S, 35S, 36S)<br><b>Digital and Analog I/O Wiring – price is on a per enclosure basis</b><br>No I/O wiring provided   | 25 in.<br>.25 in.            |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs is CT  | and n nations with a second se | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R eleutral bar (if applicable) are located behind a protected swing door s 100, 200, 300, and 400:5 – ratios must be specified with order Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11 n Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G Three-phase Disconnect and Control Power – price is on a per enclosure basis (1) 3-pole fusible disconnect provided for meter protection – meter powered off of socket blades (1) 3-pole fusible disconnect provided for meter protection with separate (1) 1-pole circuit breaker provided for (65-120 VAC, 80-160 VDC) auxillary control power horting Block – price is on a per enclosure basis 4-pole CT shorting block to accommodate 2 CTs (form 9S, 35S) 6-pole CT shorting block to accommodate 3 CTs (form 9S, 35S, 36S) 8-pole CT shorting block to accommodate 4 CTs (form 39S, 76S) 10-pole Test switch to accommodate 3 CTs and phase voltages (form 9S, 35S, 36S) Digital and Analog I/O Wiring – price is on a per enclosure basis No I/O wiring provided 3 form A DIs, 4 form C DOs wired to terminal blocks (18 TBs total) Analog – none (8600 only)  | 25 in.<br>225 in.<br>3.25 ii |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs is CT  | vstem<br>age D<br>CT Sh<br>A<br>B<br>C<br>D<br>D<br>1<br>2   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>leutral bar (if applicable) are located behind a protected swing door<br>is 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure basis<br>(1) 3-pole fusible disconnect provided for meter protection with separate (1) 1-pole circuit breaker provided for<br>(65-120 VAC, 80-160 VDC) auxillary control power<br>horting Block – price is on a per enclosure basis<br>4-pole CT shorting block to accommodate 2 CTs (form 9S, 35S, 36S)<br>6-pole CT shorting block to accommodate 3 CTs (form 9S, 35S, 36S)<br>8-pole CT shorting block to accommodate 3 CTs (form 39S, 76S)<br>10-pole Test switch to accommodate 3 CTs and phase voltages (form 9S, 35S, 36S)<br>0igital and Analog I/O Wiring – price is on a per enclosure basis<br>No I/O w | 25 in.<br>225 in.<br>3.25 ir |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs is CT  | vstem<br>age D<br>CT Sh<br>A<br>B<br>C<br>D<br>D<br>1<br>2   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>returnal bar (if applicable) are located behind a protected swing door<br>i 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11<br><b>Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G</b><br>Three-phase<br>Disconnect and Control Power – price is on a per enclosure basis<br>(1) 3-pole fusible disconnect provided for meter protection – meter powered off of socket blades<br>(1) 3-pole fusible disconnect provided for meter protection with separate (1) 1-pole circuit breaker provided for<br>(65-120 VAC, 80-160 VDC) auxiliary control power<br>horting Block – price is on a per enclosure basis<br>4-pole CT shorting block to accommodate 2 CTs (form 9S, 35S)<br>6-pole CT shorting block to accommodate 3 CTs (form 9S, 35S, 36S)<br>8-pole CT shorting block to accommodate 3 CTs (form 39S, 76S)<br>10-pole Test switch to accommodate 3 CTs and phase voltages (form 9S, 35S, 36S)<br>Digital and Analog I/O Wiring – price is on a per enclosure basis<br>No I/O wiring provided<br>3 form A DIs, 4 form C DOs wired to terminal blocks (18 TBs total) Analog – none (8600 only)<br>4 2 DIs, 2 form A DOs wired to terminal blocks (4 TBs total) (includes default I/O + DC supply); analog – none (applie<br>5600 only) 1 form A DI, 1 form A DO, and 4 form C DOs wired to terminal blocks (16 TBs total); analog – none (applie<br>5600 only)  | 25 in.<br>225 in.<br>3.25 ii |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs is CT  | vstem<br>age D<br>CT Sh<br>A<br>B<br>C<br>D<br>D<br>1<br>2   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1<br>d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R<br>reutral bar (if applicable) are located behind a protected swing door<br>i 100, 200, 300, and 400:5 – ratios must be specified with order<br>Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11<br>Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11<br>Type 3R enclosure brow the there protection with separate (1) 1-pole circuit breaker provided for<br>(65-120 VAC, 80-160 VDC) auxillary control power<br>horting Block – price is on a per enclosure basis<br>No I/O wiring provided to accommodate 3 CTs (form 9S, 35S, 36S)<br>8-pole CT shorting block to accommodate 3 CTs and phase voltages (form 9S, 35S, 3                              | 25 in.<br>225 in.<br>3.25 ir |
|          | Enclosu<br>Bar type<br>Support<br>F0<br>G0           | e CTs is CT  | vstem<br>age D<br>CT Sh<br>A<br>B<br>C<br>D<br>D<br>1<br>2   | Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1         d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R         teutral bar (if applicable) are located behind a protected swing door         s 100, 200, 300, and 400:5 – ratios must be specified with order         Type 3R enclosure with 1 form 9S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13         Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13         Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13         Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13         Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13         Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13         Type 4 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13         Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13         Type 4 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13         Three-phase         Disconnect and Control Power – price is on a per enclosure basis         (1) 3-pole fusible disconnect provided for meter protection with s   | 25 in<br>225 in<br>3.25 i    |
|          | Enclosu<br>Bar typ<br>Support<br>F0<br>G0<br>M.<br>A | Volt.  | and n nations  | Type SR enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 20 in. H X 12 in. W X 5.1         d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R         teutral bar (if applicable) are located behind a protected swing door         is 100, 200, 300, and 400:5 – ratios must be specified with order         Type 3R enclosure with 1 form 3S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 13         Type 3R enclosure with 1 form 3GS (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11         n Type 3R enclosure with 1 form 3GS (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11         n Type 3R enclosure with 1 form 3GS (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11         n Type 3R enclosure with 1 form 3GS (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11         n Type 3R enclosure with 1 form 3GS (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11         n Type 3R enclosure with 1 form 3GS (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11         n Type 3R enclosure with 1 form 3GS (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11         n Type 3R enclosure with 1 form 3GS (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11         n Type 3R enclosure basis       (1) 3-pole fusible disconnect provided for meter protection – meter powered off of socket blades         (1) 3-pole fusible disconnect provided  | 25 in<br>225 in<br>3.25 i    |

| A meter     |
|-------------|
| t A meter   |
| t A meter   |
| B meter     |
| t B meter   |
| t B meter   |
| C meter     |
| t C meter   |
| t C meter   |
| set A meter |
| t A meter   |
| set B meter |
| t B meter   |
| set C meter |

## **Main/Critical Circuit**

### PowerLogic CM4000T Factory Assembled Enclosures

Type 12 and 4X

### Description:

The CM4000T circuit monitor enclosures are an ideal metering solution for monitoring key distribution points and sensitive loads requiring revenue accuracy and power quality analysis capabilities for critical loads. These pad-lockable, concealed hinge industrial enclosures are UL listed and are well suited for monitoring multiple services where the loads are fed from the same or separate voltage sources. CM4000T enclosure can monitor up to four separate sources/loads per panel utilizing one meter with remote display per load. Multiple CM4000T units can be networked together via Ethernet or RS-485 using Modbus communication protocol.

#### Features:

- Assemblies include meters and devices wired to terminal blocks, voltage disconnect(s), and current transformer (CT) shorting block(s).
- Available with multiple meters per panel.
- Serial and Ethernet communications are options for all units.
- Digital and/or analog Input/Output (I/O) are options for all units.
- Tailored to any meter system voltage type:
- Universal voltage for 208, 480, 600 Wye or Delta.
- Supports single- or multiple-voltage sources for indoor (Type 12) and outdoor (Type 4X) applications.
- Wall mountable and easy to install using concealed holes in the back of the enclosure for Type 12 and feet for Type 4X.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish for Type 12. White Aluminum for Type 4X.
- Equipped with concealed hinged door and universal pad-lockable latch.
- Custom engraved nameplates are available for all units.

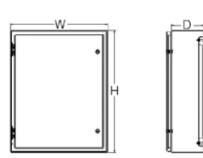




### **Main/Critical Circuit**

#### Ordering information:

|             | 1                     |       |       |                 |       | Factory Assembled: Ty  |
|-------------|-----------------------|-------|-------|-----------------|-------|--|
| Model       | Order C               | ode   |       |                 |       | Description  |
| 9761E       |                       |       |       |                 |       | Typical lead time is 4 weeks   |
| Meter       |                       |       |       |                 |       | Meter Type (meter is includ  |
| 4000        |                       |       |       |                 |       | CM4000T remote display meter   |
|             | Enclosu               | re Ty | /pe a | and             | Met   | er Quantity – indoor applicati   |
|             | R1                    |       |       |                 |       | Type 12 enclosure with 1 meter   |
|             | R2                    |       |       |                 |       | Type 12 enclosure with 2 mete  |
|             | R3                    |       |       |                 |       | Type 12 enclosure with 3 meter   |
|             | R4                    |       |       |                 |       | Type 12 enclosure with 4 meter   |
|             | Enclosu               | re Ty | /pe a | and             | Met   | er Quantity – indoor/outdoor   |
|             |                       |       |       |                 |       | with a strip heater to prevent cor<br>d. Please consult with engineering                         |
|             | Y1                    |       |       |                 |       | Type 4X enclosure with 1 meters  |
|             | Y2                    |       |       |                 |       | Type 4X enclosure with 2 meter   |
|             | Y3                    |       |       |                 |       | Type 4X enclosure with 3 meter   |
|             | Y4                    |       |       |                 |       | Type 4X enclosure with 4 meter   |
|             | M                     | eter  | Syst  | em <sup>.</sup> | Туре  | - PTs and CTs are not includ   |
|             | G                     |       |       |                 |       | Three-phase - 120/208V, 277,   |
|             |                       |       |       |                 |       | nect and Control Power – for<br>st have the same meter syste                                     |
|             |                       | 0     |       |                 |       | (1) 3-pole fusible disconnect p<br>universal power input configur                                |
|             |                       | 7     |       |                 |       | Multiple Voltage Sources – 3-F<br>universal power input configur                                 |
|             |                       |       | СТ    | Sho             | ortin | g Block  |
|             |                       |       | С     |                 |       | 8-pole CT shorting block to ac   |
|             |                       |       |       | Diç             | gital | and Analog Input/Output Wir  |
|             |                       |       |       | 1               |       | None   |
|             |                       |       |       | 2               |       | 4 DIs and 2 DOs and 1 KYZ Ou   |
|             |                       |       |       | 3               |       | 4 Dls, 3 relay Outputs, KYZ Ou   |
|             |                       |       |       | 4               |       | 8 Dls, 3 relay Outputs, KYZ Ou<br>DC supply)   |
|             |                       |       |       |                 | Co    | mmunications Wiring  |
|             |                       |       |       |                 | A     | No communications terminal b   |
|             |                       |       |       |                 | в     | COM 1 wired to 5 – 2 tier TBs  |
|             |                       |       |       |                 | С     | 1 100BaseFX, 10/100Base T e<br>wired to terminal blocks (5-OL                                    |
|             |                       |       |       |                 |       | Note: For multi-meter panels,<br>both incoming and outgoing t<br>terminal blocks will be replace |
| Example: pa | art Num               | oer 9 | 976   | E4              | 000   | ,  |
|             | COLORED FOR THE STATE |       |       |                 |       |  |



Enclosure Dimensions - see ordering information.

Note: For Type 3R, 4, and 4X enclosures, if unit uses door mounted equipment, this equipment will be mounted on an inner swing door. The outer protective door must be opened to access door mounted equipment.

#### pe 12 and 4X CM4000T Meter Enclosures

#### ded with enclosure)

∋r

#### tions – Type 12

ter with remote display installed and wired – Dimensions 24 in. H x 20 in. W x 10 in. D

ers with remote displays installed and wired – Dimensions 30 in. H x 24 in. W x 10 in. D

ers with remote displays installed and wired – Dimensions 36 in. H x 30 in. W x 10 in. D

ers with remote displays installed and wired – Dimensions 36 in. H x 36 in. W x 12 in. D

#### r applications – Type 4X

ndensation. If further environmental controls are required such as cooling, then a custom of for a quote.

ter with remote display installed and wired – Dimensions 24 in. H x 24 in. W x 12 in. D

ers with remote displays installed and wired – Dimensions 30 in. H x 30 in. W x 12 in. D

ers with remote displays installed and wired – Dimensions 36 in. H x 36 in. W x 12 in. D

ters with remote displays installed and wired – Dimensions 42 in. H x 36 in. W x 12 in. D

#### ded

7/480V, 347/600V Wye or 240V, 480V, 600V Delta

or Option 0 – on a per enclosure basis/for Option 7 – on a per meter basis em type – otherwise a custom quote is required

provided for protection of all meters in enclosure

iration (1) Multi-Tap CPT provided for control power source

Pole Fusible disconnect provided for protection of each meter in enclosure

ration (1) Multi-Tap CPT provided for control power source

ccommodate 4 CTs per meter

#### iring

output and 1 AO and 1 AI wired to terminal blocks (includes default I/O + IOX2411 + DC supply)

utput and 1 DO wired to terminal blocks (includes default I/O + IOC44 + DC supply)

utput, 3 DOs, 1AO and 1 AI wired to terminal blocks (includes default I/O + IOX2411+ IOC44 +

blocks included

(5-IN, 5-OUT)

equipped meter; CAT5E and fiber cables will terminate directly on the meter; RS-485 port JT) for 5 TBs total

, each meter's comm. ports will be daisy chained together and wired to terminal blocks for termination. Units that have Ethernet will wire exactly the same except the incoming 4-wire ced by the meter's comm. port for that network.

## **Main/Critical Circuit**

### PowerLogic ION7550/7650 Factory Assembled Enclosures

Type 12 and 4X

### Description:

The ION7550 and ION7650 metering enclosures are an ideal metering solution for monitoring key distribution points and sensitive loads requiring revenue accuracy and power quality analysis capabilities. These pad-lockable, concealed hinge industrial enclosures are UL listed and well suited for monitoring multiple services where the loads are fed from the same or separate voltage sources. ION7550/7650 enclosures are capable of monitoring up to four separate sources/loads per panel utilizing one meter per load.

#### Features:

- Assemblies include meters and devices wired to terminal blocks, voltage disconnect(s), and current transformer (CT) shorting block(s).
- Available with multiple meters per panel.
- Serial and Ethernet communications are options for all units.
- Digital and/or analog Input/Output (I/O) are options for all units.
- Tailored to any meter system voltage type:
- Universal voltage for 208, 480, 600 Wye or Delta.
- Supports single- or multiple-voltage sources for indoor (Type 12) and outdoor (Type 4X) applications.
- Wall mountable and easy to install using concealed holes in the back of the enclosure for Type 12 and feet for Type 4X.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish for Type 12. White Aluminum for Type 4X.
- Custom engraved nameplates are available for all units.

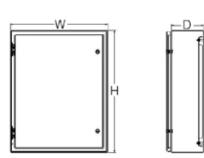




### **Main/Critical Circuit**

#### Ordering information:

|       |         |       |   |       |       | , r | act    | ory Assembled: Type 12  |  |  |  |  |  |  |  |
|-------|---------|-------|---|-------|-------|-----|--------|---|--|--|--|--|--|--|--|
| Model |         | Ord   | er C  | ode   |       |     |        | Description   |  |  |  |  |  |  |  |
| 9761E |         |       |   |       |       |     |        | Typical lead time is 5 weeks for                                    |  |  |  |  |  |  |  |
|       | Meter   |       |   |       |       |     |        | Meter Type (meter is includ   |  |  |  |  |  |  |  |
|       | 7550    |       |   |       |       |     |        | ION7550 remote display meter  |  |  |  |  |  |  |  |
|       | 7650    |       |   |       |       |     |        | ION7650 remote display meter  |  |  |  |  |  |  |  |
|       |         | Enc   | losu  | re Ty | /pe a | and | Mete   | er Quantity – indoor application                                    |  |  |  |  |  |  |  |
|       |         | R1    |   |       |       |     |        | Type 12 enclosure with 1 displ                                      |  |  |  |  |  |  |  |
|       |         | R2    |   |       |       |     |        | Type 12 enclosure with 2 displa                                     |  |  |  |  |  |  |  |
|       |         | R3    |   |       |       |     |        | Type 12 enclosure with 3 displa                                     |  |  |  |  |  |  |  |
|       |         | R4    |   |       |       |     |        | Type 12 enclosure with 4 displa                                     |  |  |  |  |  |  |  |
|       |         | Enc   | losu  | re Ty | /pe a | and | Mete   | er Quantity – indoor/outdoor  |  |  |  |  |  |  |  |
|       |         | Note  | Enclosure Type and Meter Quantity – indoor/outdoor<br>Note: All units are equipped with a strip heater to prevent co<br>design will be required. Please consult with engineerin |       |       |     |        |   |  |  |  |  |  |  |  |
|       |         | X1    |   |       |       |     |        | Type 4X enclosure with 1 integ                                      |  |  |  |  |  |  |  |
|       |         | X2    |   |       |       |     |        | Type 4X enclosure with 2 integ                                      |  |  |  |  |  |  |  |
|       |         | ХЗ    |   |       |       |     |        | Type 4X enclosure with 3 integ                                      |  |  |  |  |  |  |  |
|       |         | X4    |   |       |       |     |        | Type 4X enclosure with 4 integ                                      |  |  |  |  |  |  |  |
|       |         |       | Meter System Type – PTs and CTs are not incl  |       |       |     |        |   |  |  |  |  |  |  |  |
|       |         |       | G   |       |       |     |        | Three-phase - 120/208V, 277/  |  |  |  |  |  |  |  |
|       |         |       |   |       | -     |     |        | nect and Control Power – for<br>at have the same meter syste        |  |  |  |  |  |  |  |
|       |         |       |   | 0     |       |     |        | (1) 3-pole fusible disconnect pr<br>universal power input configura |  |  |  |  |  |  |  |
|       |         |       |   | 7     |       |     |        | Multiple Voltage Sources — 3-<br>universal power input configura    |  |  |  |  |  |  |  |
|       |         |       |   |       | СТ    | Sho | orting | g Block   |  |  |  |  |  |  |  |
|       |         |       |   |       | С     |     |        | 8-pole CT shorting block to ac                                      |  |  |  |  |  |  |  |
|       |         |       |   |       |       | Dig | gital  | and Analog Input/Output Wir   |  |  |  |  |  |  |  |
|       |         |       |   |       |       | 1   |        | None  |  |  |  |  |  |  |  |
|       |         |       |   |       |       | 2   |        | 8 Dls, 4 DOs, and 3 relay Outp                                      |  |  |  |  |  |  |  |
|       |         |       |   |       |       | 3   |        | 16 DIs wired to terminal blocks                                     |  |  |  |  |  |  |  |
|       |         |       |   |       |       | 4   |        | 16 Dls, 4 DOs, and 3 relay Outp                                     |  |  |  |  |  |  |  |
|       |         |       |   |       |       |     | Co     | mmunications Wiring   |  |  |  |  |  |  |  |
|       |         |       |   |       |       |     | A      | No communications terminal b  |  |  |  |  |  |  |  |
|       |         |       |   |       |       |     | в      | COM 1 and COM 2 wired to 6  |  |  |  |  |  |  |  |
|       |         |       |   |       |       |     | С      | 1 100BaseT Ethernet meter; C<br>(3-IN, 3-OUT each COM port) t       |  |  |  |  |  |  |  |
|       |         |       |   |       |       |     |        | Note: For multi-meter panels for                                    |  |  |  |  |  |  |  |
|       |         |       |   |       |       |     |        | outgoing COMMs off test meter                                       |  |  |  |  |  |  |  |
| Exam  | ple: pa | rt Nı | ımb   | er 9  | 9761  | 1E7 | 650    |   |  |  |  |  |  |  |  |



Enclosure Dimensions - see ordering information.

Note: For Type 3R, 4, and 4X enclosures, if unit uses door mounted equipment, this equipment will be mounted on an inner swing door. The outer protective door must be opened to access door mounted equipment.

#### and 4X ION7550 and ION7650 Meter Enclosures

or this offering ded with enclosure) tions – Type 12 play meter installed and wired – Dimensions 30 in. H x 24 in. W x 10 in. D play meters installed and wired – Dimensions 30 in. H x 30 in. W x 10 in. D play meters installed and wired – Dimensions 36 in. H x 36 in. W x 12 in. D play meters installed and wired – Dimensions 42 in. H x 36 in. W x 10 in. D r applications – Type 4X ndensation. If further environmental controls are required such as cooling, then a custom g for a quote. grated display meter installed and wired – Dimensions 30 in. H x 30 in. W x 12 in. D grated display meters installed and wired – Dimensions 36 in. H x 30 in. W x 12 in. D grated display meters installed and wired – Dimensions 42 in. H x 36 in. W x 12 in. D grated display meters installed and wired – Dimensions 48 in. H x 36 in. W x 12 in. D ded 7/480V, 347/600V Wye or 240V, 480V, 600V Delta or Option 0 - on a per enclosure basis/for Option 7 - on a per meter basis em type - otherwise a custom quote is required provided for protection of all meters in enclosure ration (1) Multi-Tap CPT provided for control power source -pole fusible disconnect provided for protection of each meter in enclosure ration (1) Multi-Tap CPT provided for control power source ccommodate 4 CTs per meter iring

puts wired to terminal blocks (33 TBs) per meter

ks and 4 Al's and 4 AO's wired to terminal blocks (56 TBs) per meter

tputs wired to terminal blocks and 4 AI's and 4 AO's wired to terminal blocks (73 TBs) per meter

blocks included

6 terminal blocks (3-IN, 3-OUT each COM port) for 12 TBs total

CAT6 will terminate directly on meter; COM 1 and COM 2 wired to 6 terminal clocks ) for 12 TBs total

or each RS-485 network there will be 3 TBs for incoming COMMs to first meter and 3 TBs for er. Each meter in panel will be daisy chained together.

## **Main and Multiple Feeders**

### PowerLogic CM4000T Main with PM820 **Feeder Factory Assembled Enclosures**

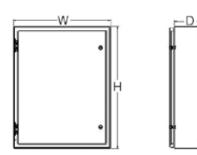
Type 12 and 4X

### **Description:**

The CM4000T Main with PM820 feeder enclosure is an ideal metering solution for monitoring key distribution points and sensitive loads requiring revenue accuracy and power quality analysis capabilities. These pad-lockable enclosures are UL listed and offer an integrated solution that is well suited for monitoring the main service as well as multiple loads. These main plus feeder units allow for primary main service voltage monitoring in addition to separate voltage monitoring for the loads which share the same voltage source. Each unit is capable of monitoring up to one main service and eight separate loads per panel utilizing one meter per load. Multiple units can be networked together via Ethernet or RS-485 using Modbus communication protocol.

#### Features:

- Assemblies include meters and devices wired to terminal blocks, voltage disconnect(s), eight-pole current transformer (CT) shorting block on the main, and six-pole CT shorting block(s) on the feeders.
- Available with multiple meters per panel.
- Main meter and feeders will be wired for Inputs/Outputs. Eight digital Inputs, three relay Outs, KYZ Out, three digital Outputs, one analog Output, one analog Input wired to terminal blocks (includes default I/O + IOX2411 + IOC44 + DC supply). Each feeder will have one digital Input and one digital Output wired to terminal blocks. (Includes feeder default I/O only.)
- One 100BaseFX, 10/100BaseT equipped meter. CAT5E and fiber cabinet will terminate directly on the meter. Each meter RS-485 port will be daisy chained together and wired to terminal blocks (Five Out for five terminal blocks total).
- Tailored to any meter system voltage type:
- Universal voltage for 208, 480, 600 Wye or Delta.
- Wall mountable and easy to install using concealed holes in the back of the enclosure for Type 12 and feet for Type 4X.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish for Type 12. White Aluminum for Type 4X.
- Custom engraved nameplates are available for all units.



Enclosure Dimensions - see ordering information.

Note: For Type 3R, 4, and 4X enclosures, if unit uses door mounted equipment, this equipment will be mounted on an inner swing door. The outer protective door must be opened to access door mounted equipment.





### **Main and Multiple Feeders**

#### Ordering information:

|       |         |        | Fac   | ctory A  | Assembled: Single Main – Multi Feeder Monitoring Panels – Type 12 and 4X CM4000T   |  |  |  |  |  |  |  |  |  |  |
|-------|---------|--------|-------|----------|--|--|--|--|--|--|--|--|--|--|--|
|       |         |        |       |          | Main with PM820 Feeder Metering Enclosures   |  |  |  |  |  |  |  |  |  |  |
| Model |         | Orde   | er Co | de       | Description  |  |  |  |  |  |  |  |  |  |  |
| 9761M |         |        |       |          | Typical lead time is 4 weeks<br>This enclosure offer utilizes remote display meters on the main and remote displays on the feeders   |  |  |  |  |  |  |  |  |  |  |
|       | Meter   |        |       |          | Meter Type (meters are included with enclosure)  |  |  |  |  |  |  |  |  |  |  |
|       | 4000    |        |       |          | CM4000T circuit monitor with CMDVF and CMDGN12, IOX2411, IOC44, and ECC21  |  |  |  |  |  |  |  |  |  |  |
|       |         | F82    |       |          | PM820 remote display meter; 1 per feeder   |  |  |  |  |  |  |  |  |  |  |
|       |         |        | Enc   | losure T | ype and Meter Quantity – indoor applications – Type 12   |  |  |  |  |  |  |  |  |  |  |
|       |         |        | R1    |          | Type 12 enclosure with 1 main and 1 feeder meter installed and wired – Dimensions 24 in. H x 24 in. W x 10 in. D   |  |  |  |  |  |  |  |  |  |  |
|       |         |        | R2    |          | Type 12 enclosure with 1 main and 2 feeder meters installed and wired – Dimensions 30 in. H x 24 in. W x 10 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | R3    |          | Type 12 enclosure with 1 main and 3 feeder meters installed and wired – Dimensions 30 in. H x 24 in. W x 10 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | R4    |          | Type 12 enclosure with 1 main and 4 feeder meters installed and wired – Dimensions 30 in. H x 30 in. W x 10 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | R5    |          | Type 12 enclosure with 1 main and 5 feeder meters installed and wired – Dimensions 30 in. H x 30 in. W x 10 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | R6    |          | Type 12 enclosure with 1 main and 6 feeder meters installed and wired – Dimensions 36 in. H x 30 in. W x 10 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | R7    |          | Type 12 enclosure with 1 main and 7 feeder meters installed and wired – Dimensions 36 in. H x 30 in. W x 10 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | R8    |          | Type 12 enclosure with 1 main and 8 feeder meters installed and wired – Dimensions 36 in. H x 30 in. W x 10 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | Enc   | losure T | ype and Meter Quantity – indoor/outdoor – Type 4X  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | Note  |          | s are equipped with a strip heater to prevent condensation. If further environmental controls are required such as cooling,<br>custom design will be required. Please consult with engineering for a quote.                                      |  |  |  |  |  |  |  |  |  |  |
|       |         |        | Y1    |          | Type 4X enclosure with 1 main and 1 feeder meter installed and wired – Dimensions 30 in. H x 24 in. W x 12 in. D   |  |  |  |  |  |  |  |  |  |  |
|       |         |        | Y2    |          | Type 4X enclosure with 1 main and 2 feeder meters installed and wired – Dimensions 30 in. H x 24 in. W x 12 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | Y3    |          | Type 4X enclosure with 1 main and 3 feeder meters installed and wired – Dimensions 30 in. H x 30 in. W x 12 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | Y4    |          | Type 4X enclosure with 1 main and 4 feeder meters installed and wired – Dimensions 30 in. H x 30 in. W x 12 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | Y5    |          | Type 4X enclosure with 1 main and 5 feeder meters installed and wired – Dimensions 36 in. H x 30 in. W x 12 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | Y6    |          | Type 4X enclosure with 1 main and 6 feeder meters installed and wired – Dimensions 36 in. H x 30 in. W x 12 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | Y7    |          | Type 4X enclosure with 1 main and 7 feeder meters installed and wired – Dimensions 36 in. H x 30 in. W x 12 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        | Y8    |          | Type 4X enclosure with 1 main and 8 feeder meters installed and wired – Dimensions 36 in. H x 36 in. W x 12 in. D  |  |  |  |  |  |  |  |  |  |  |
|       |         |        |       | Meter    | System Type – PTs and CTs are not included   |  |  |  |  |  |  |  |  |  |  |
|       |         |        |       | G        | Three-phase – 120/208V, 277/480V, 347/600V Wye or 240V, 480V, 600V Delta   |  |  |  |  |  |  |  |  |  |  |
|       |         |        |       | Vo       | Itage Disconnect and Control Power   |  |  |  |  |  |  |  |  |  |  |
|       |         |        |       | 0        | <ul> <li>(2) 3-pole fusible disconnects (1-for main and 1-for feeders) provided for protection of all meters in enclosure;</li> <li>(1) 600/480 – 120VAC CPT provided for control power source derived from main meter voltage inputs</li> </ul> |  |  |  |  |  |  |  |  |  |  |
| Exam  | ole: pa | irt Nu | umbe  | er 9671  | E4000F82R3G0   |  |  |  |  |  |  |  |  |  |  |
| 9761M | 4000    | F82    | R3    | G 0      |  |  |  |  |  |  |  |  |  |  |  |
|       |         |        |       |          |  |  |  |  |  |  |  |  |  |  |  |

### **Main and Multiple Feeders**

### PowerLogic ION7550/7650 Main with **ION6200 Feeder Factory Assembled** Enclosures

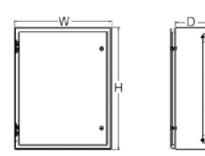
Type 12 and 4X

#### **Description**:

The ION7550/7650 Main with ION6200 feeder enclosure is an ideal metering solution for monitoring key distribution points and sensitive loads requiring revenue accuracy and power quality analysis capabilities. These pad-lockable enclosures are UL listed and offer an integrated solution that is well suited for monitoring the main service as well as multiple loads. These main plus feeder units allow for primary main service voltage monitoring in addition to separate voltage monitoring for the loads which share the same voltage source. Each unit is capable of monitoring up to one main service and eight separate loads per panel utilizing one meter per load. Multiple units can be networked together via Ethernet or RS-485 using Modbus, ION, or other industry standard communication protocols.

#### Features:

- Assemblies include meters and devices wired to terminal blocks, voltage disconnect(s), eight-pole current transformer (CT) shorting block on the main, and six-pole CT shorting block(s) on the feeders.
- Available with multiple meters per panel.
- Main meter will be wired for Inputs/Outputs, feeders will not. 16 digital Inputs, four digital Outputs, and three relay Outputs wired to terminal blocks and four analog Inputs and four analog Outputs wired to terminal blocks.
- One 10 Base-T Ethernet and 10 Base-FL equipped meter. CAT 5E and fiber cables will terminate directly on meter. Each RS-485 port will be daisy chained together and wired to terminal blocks.
- Tailored to any meter system voltage type:
- Universal voltage for 208, 480, 600 Wye or Delta.
- Wall mountable and easy to install using concealed holes in the back of the enclosure for Type 12 and feet for Type 4X.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish for Type 12. White Aluminum for Type 4X.
- Custom engraved nameplates are available for all units.



Enclosure Dimensions - see ordering information.

Note: For Type 3R, 4, and 4X enclosures, if unit uses door mounted equipment, this equipment will be mounted on an inner swing door. The outer protective door must be opened to access door mounted equipment.





### **Main and Multiple Feeders**

#### Ordering information:

| Model |                             | Ord    | er Co | de    |   | Description   |  |  |  |  |  |  |  |  |
|-------|-----------------------------|--------|-------|-------|---|---|--|--|--|--|--|--|--|--|
| 9761M |                             | 1      |       |       |   | Typical lead time is 5 weeks<br>This enclosure offer utilizes integrated display meters on the main and remote displays on the feeders  |  |  |  |  |  |  |  |  |
|       | Meter                       |        |       |       |   | Meter Type (meters are included with enclosure)   |  |  |  |  |  |  |  |  |
|       | 7550                        |        |       |       |   | ION7550 remote display meter with expanded communications and I/O (Ethernet 100BaseT)   |  |  |  |  |  |  |  |  |
|       | 7650                        |        |       |       |   | ION7650 remote display meter with expanded communications and I/O (Ethernet 100BaseT)   |  |  |  |  |  |  |  |  |
|       | F62                         |        |       |       |   | ION6200 remote display meter; 1 per feeder  |  |  |  |  |  |  |  |  |
|       |                             |        | Encl  | osu   | re Ty   | pe and Meter Quantity – indoor applications – Type 12   |  |  |  |  |  |  |  |  |
|       |                             |        | R1    |       |   | Type 12 enclosure with 1 main and 1 feeder meter installed and wired – Dimensions 30 in. H x 30 in.   |  |  |  |  |  |  |  |  |
|       |                             |        | R2    |       |   | Type 12 enclosure with 1 main and 2 feeder meters installed and wired – Dimensions 36 in. H x 30 in.  |  |  |  |  |  |  |  |  |
|       |                             |        | R3    |       |   | Type 12 enclosure with 1 main and 3 feeder meters installed and wired – Dimensions 36 in. H x 30 in.  |  |  |  |  |  |  |  |  |
|       | R4<br>R5                    |        |       |       |   | Type 12 enclosure with 1 main and 4 feeder meters installed and wired – Dimensions 36 in. H x 36 in.  |  |  |  |  |  |  |  |  |
|       |                             |        |       |       |   | Type 12 enclosure with 1 main and 5 feeder meters installed and wired – Dimensions 36 in. H x 36 in.  |  |  |  |  |  |  |  |  |
|       | R6<br>R7<br>R8<br>Enclosure |        |       |       |   | Type 12 enclosure with 1 main and 6 feeder meters installed and wired – Dimensions 42 in. H x 36 in.  |  |  |  |  |  |  |  |  |
|       |                             |        |       |       | Type 12 enclosure with 1 main and 7 feeder meters installed and wired – Dimensions 42         |   |  |  |  |  |  |  |  |  |
|       |                             |        |       |       | Type 12 enclosure with 1 main and 8 feeder meters installed and wired – Dimensions 42 in. H x |   |  |  |  |  |  |  |  |  |
|       |                             |        |       |       | re Ty   | e Type and Meter Quantity – indoor/outdoor applications – Type 4X   |  |  |  |  |  |  |  |  |
|       |                             |        | Note  |       |   | are equipped with a strip heater to prevent condensation. If further environmental controls are required sucl<br>ustom design will be required. Please consult with engineering for a quote.                    |  |  |  |  |  |  |  |  |
|       |                             |        | Y1    |       |   | Type 4X enclosure with 1 main and 1 feeder meter installed and wired – Dimensions 36 in. H x 30 in.   |  |  |  |  |  |  |  |  |
|       |                             |        | Y2    |       |   | Type 4X enclosure with 1 main and 2 feeder meters installed and wired – Dimensions 36 in. H x 30 in.  |  |  |  |  |  |  |  |  |
|       |                             |        | Y3    |       |   | Type 4X enclosure with 1 main and 3 feeder meters installed and wired – Dimensions 36 in. H x 36 in.  |  |  |  |  |  |  |  |  |
|       |                             |        | Y4    |       |   | Type 4X enclosure with 1 main and 4 feeder meters installed and wired – Dimensions 36 in. H x 36 in.  |  |  |  |  |  |  |  |  |
|       |                             |        | Y5    |       |   | Type 4X enclosure with 1 main and 5 feeder meters installed and wired – Dimensions 42 in. H x 36 in.  |  |  |  |  |  |  |  |  |
|       |                             |        | Y6    |       |   | Type 4X enclosure with 1 main and 6 feeder meters installed and wired – Dimensions 42 in. H x 36 in.  |  |  |  |  |  |  |  |  |
|       |                             |        | Y7    |       |   | Type 4X enclosure with 1 main and 7 feeder meters installed and wired – Dimensions 42 in. H x 36 in.  |  |  |  |  |  |  |  |  |
|       | Y8                          |        |       |       | Type 4X enclosure with 1 main and 8 feeder meters installed and wired – Dimensions 48 in. H   |   |  |  |  |  |  |  |  |  |
|       |                             |        |       | Me    | eter \$   | System Type – PTs and CTs are not included  |  |  |  |  |  |  |  |  |
|       |                             |        |       | G     |   | Three-phase - 120/208V, 277/480V, 347/600V Wye or 240V, 480V, 600V Delta  |  |  |  |  |  |  |  |  |
|       |                             |        |       |       |   | tage Disconnect and Control Power – for Option 0 – on a per enclosure basis<br>feeders must have the same meter system type – otherwise a custom quote is required  |  |  |  |  |  |  |  |  |
|       |                             |        |       |       | 0   | (2) 3-pole fusible disconnects (1-for main and 1-for feeders) provided for protection of all meters in enc<br>(1) 600/480 – 120VAC CPT provided for control power source derived from main meter voltage inputs |  |  |  |  |  |  |  |  |
| Exami | ole: pa                     | irt Ni | umbe  | er 91 | 761   | M7650F62R8G0  |  |  |  |  |  |  |  |  |
|       |                             |        |       |       |   |   |  |  |  |  |  |  |  |  |

#### ti Feeder Monitoring Panels – Type 12 and 4X ION7550 n ION6200 Feeder Metering Enclosures

with enclosure) expanded communications and I/O (Ethernet 100BaseT) expanded communications and I/O (Ethernet 100BaseT) r feeder plications – Type 12 feeder meter installed and wired – Dimensions 30 in. H x 30 in. W x 12 in. D feeder meters installed and wired – Dimensions 36 in. H x 30 in. W x 12 in. D feeder meters installed and wired – Dimensions 36 in. H x 30 in. W x 12 in. D feeder meters installed and wired – Dimensions 36 in. H x 36 in. W x 12 in. D feeder meters installed and wired – Dimensions 36 in. H x 36 in. W x 12 in. D feeder meters installed and wired – Dimensions 42 in. H x 36 in. W x 12 in. D feeder meters installed and wired – Dimensions 42 in. H x 36 in. W x 12 in. D feeder meters installed and wired – Dimensions 42 in. H x 36 in. W x 12 in. D Itdoor applications – Type 4X rent condensation. If further environmental controls are required such as cooling, onsult with engineering for a quote feeder meter installed and wired – Dimensions 36 in. H x 30 in. W x 12 in. D feeder meters installed and wired – Dimensions 36 in. H x 30 in. W x 12 in. D feeder meters installed and wired – Dimensions 36 in. H x 36 in. W x 12 in. D feeder meters installed and wired - Dimensions 36 in. H x 36 in. W x 12 in. D feeder meters installed and wired - Dimensions 42 in. H x 36 in. W x 12 in. D feeder meters installed and wired – Dimensions 42 in. H x 36 in. W x 12 in. D feeder meters installed and wired – Dimensions 42 in. H x 36 in. W x 12 in. D feeder meters installed and wired – Dimensions 48 in. H x 36 in. W x 12 in. D included 347/600V Wye or 240V, 480V, 600V Delta r – for Option 0 – on a per enclosure basis system type - otherwise a custom quote is required nain and 1-for feeders) provided for protection of all meters in enclosure; for control power source derived from main meter voltage inputs

## **Secondary Mains**

### PowerLogic ION7300 Series Factory Assembled Enclosures

Type 12 and 4X

### **Description:**

The ION7300 Series enclosures are an ideal metering solution for high accuracy feeder monitoring and secondary mains. These pad-lockable enclosures are UL listed and well suited for monitoring multiple loads fed from the same or separate voltage sources. ION7300 Series enclosures are capable of monitoring up to four separate sources/loads per panel utilizing one remote display or integrated display meter per load. Multiple ION7300 Series units can be networked together via Ethernet or RS-485 using Modbus, ION, or other industry standard communication protocols.

#### **Features:**

- Assemblies include meters and devices wired to terminal blocks, voltage disconnect(s), and current transformer (CT) shorting block(s).
- Available with multiple meters per panel.
- Serial and Ethernet communications are options for all units.
- Digital and/or analog Input/Output (I/O) are options for all units.
- Tailored to any meter system voltage type:
- Universal voltage for 208, 480, 600 Wye or Delta.
- Supports single- or multiple-voltage sources for indoor (Type 12) and outdoor (Type 4X) applications.
- Wall mountable and easy to install using concealed holes in the back of the enclosure for Type 12 and feet for Type 4X.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish for Type 12. White Aluminum for Type 4X.
- Custom engraved nameplates are available for all units.

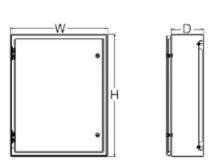




### **Secondary Mains**

#### Ordering information:

|       |         |       |  |       |                 | Fa    | cto   | ry Assembled: Type 12 a  |  |  |  |  |  |  |  |
|-------|---------|-------|--|-------|-----------------|-------|-------|--|--|--|--|--|--|--|--|
| Model |         | Orde  | er Co  | ode   |                 |       |       | Description  |  |  |  |  |  |  |  |
| 9761E |         |       |  |       |                 |       |       | Typical lead time is 5 weeks   |  |  |  |  |  |  |  |
|       | Meter   |       |  |       |                 |       |       | Meter Type (meter is include   |  |  |  |  |  |  |  |
|       | 7330    |       |  |       |                 |       |       | ION7330 remote or integrated   |  |  |  |  |  |  |  |
|       | 7350    |       |  |       |                 |       |       | ION7350 remote or integrated   |  |  |  |  |  |  |  |
|       |         | Encl  | osu  | re Ty | ype a           | and   | Met   | er Quantity – indoor application   |  |  |  |  |  |  |  |
|       |         | A1    |  |       |                 |       |       | Type 12 enclosure with 1 mete  |  |  |  |  |  |  |  |
|       |         | A2    |  |       |                 |       |       | Type 12 enclosure with 2 meter   |  |  |  |  |  |  |  |
|       |         | A3    |  |       |                 |       |       | Type 12 enclosure with 3 meter   |  |  |  |  |  |  |  |
|       |         | A4    |  |       |                 |       |       | Type 12 enclosure with 4 meter   |  |  |  |  |  |  |  |
|       |         | R1    |  |       |                 |       |       | Type 12 enclosure with 1 meter   |  |  |  |  |  |  |  |
|       |         | R2    |  |       |                 |       |       | Type 12 enclosure with 2 mete  |  |  |  |  |  |  |  |
|       |         | R3    |  |       |                 |       |       | Type 12 enclosure with 3 mete  |  |  |  |  |  |  |  |
|       |         | R4    |  |       |                 |       |       | Type 12 enclosure with 4 mete  |  |  |  |  |  |  |  |
|       |         | Encl  | osu  | re Ty | ype a           | and   | Met   | er Quantity – indoor/outdoor   |  |  |  |  |  |  |  |
|       |         | Note  | lote: All units are equipped with a strip heater to prevent co |       |                 |       |       |  |  |  |  |  |  |  |  |
|       |         |       | des  | ign v | vill b          | e req | uirea | d. Please consult with engineering   |  |  |  |  |  |  |  |
|       |         | X1    |  |       |                 |       |       | Type 4X enclosure with 1 mete  |  |  |  |  |  |  |  |
|       |         | X2    |  |       |                 |       |       | Type 4X enclosure with 2 meter   |  |  |  |  |  |  |  |
|       |         | X3    |  |       |                 |       |       | Type 4X enclosure with 3 meter   |  |  |  |  |  |  |  |
|       |         | X4    |  |       |                 |       |       | Type 4X enclosure with 4 meter   |  |  |  |  |  |  |  |
|       |         | Y1    |  |       |                 |       |       | Type 4X enclosure with 1 meter   |  |  |  |  |  |  |  |
|       |         | Y2    |  |       |                 |       |       | Type 4X enclosure with 2 mete  |  |  |  |  |  |  |  |
|       |         | Y3    |  |       |                 |       |       | Type 4X enclosure with 3 mete  |  |  |  |  |  |  |  |
|       |         | Y4    |  |       |                 |       | -     | Type 4X enclosure with 4 mete  |  |  |  |  |  |  |  |
|       |         |       |  | ter   | Syst            | em    | гуре  | - PTs and CTs are not includ   |  |  |  |  |  |  |  |
|       |         |       | G  | Ve    | <b>It a a a</b> | Die   |       | Three-phase – 120/208V, 277/   |  |  |  |  |  |  |  |
|       |         |       |  |       |                 |       |       | nect and Control Power – for<br>st have the same meter syste                                       |  |  |  |  |  |  |  |
|       |         |       |  | 0     |                 |       |       | (1) 3-pole fusible disconnect pr<br>universal power input configura                                |  |  |  |  |  |  |  |
|       |         |       |  | 7     |                 |       |       | Multiple Voltage Sources – 3-po<br>universal power input configura                                 |  |  |  |  |  |  |  |
|       |         |       |  |       | СТ              | Sho   | ortin | g Block  |  |  |  |  |  |  |  |
|       |         |       |  |       | В               |       |       | 6-pole CT shorting block to ac   |  |  |  |  |  |  |  |
|       |         |       |  |       |                 | Dig   | gital | and Analog Input/Output Wir  |  |  |  |  |  |  |  |
|       |         |       |  |       |                 | 1     |       | None   |  |  |  |  |  |  |  |
|       |         |       |  |       |                 | 2     |       | 4 DIs and 4 DOs wired to term  |  |  |  |  |  |  |  |
|       |         |       |  |       |                 | 3     |       | 4 AI's and 4 AO's wired to term  |  |  |  |  |  |  |  |
|       |         |       |  |       |                 | 4     |       | 4 DIs and 4 DOs wired to term  |  |  |  |  |  |  |  |
|       |         |       |  |       |                 |       | Co    | mmunications Wiring  |  |  |  |  |  |  |  |
|       |         |       |  |       |                 |       | A     | No communications terminal b   |  |  |  |  |  |  |  |
|       |         |       |  |       |                 |       | в     | COM 1 and COM 2 wired to 6   |  |  |  |  |  |  |  |
|       |         |       |  |       |                 |       | С     | One Ethernet equipped meter;<br>blocks (3-IN, 3-OUT each COM                                       |  |  |  |  |  |  |  |
|       |         |       |  |       |                 |       |       | Note: For multi meter panels each for both incoming and outgoing 2-wire terminal blocks will be re |  |  |  |  |  |  |  |
| Exam  | ole: pa | rt Ni | imb  | er (  | 9761            | IE7   | 350   | R1G0B1C  |  |  |  |  |  |  |  |
| 9761E | 7350    | R1    | G  | 0     | в               | 1     | С     |  |  |  |  |  |  |  |  |
| JIUIE | 1000    | п     | a  |       |                 | '     |       |  |  |  |  |  |  |  |  |



Enclosure Dimensions - see ordering information.

Note: For Type 3R, 4, and 4X enclosures, if unit uses door mounted equipment, this equipment will be mounted on an inner swing door. The outer protective door must be opened to access door mounted equipment.

#### nd 4X ION7330 and ION7350 Meter Enclosures

#### ded with enclosure)

display meter

display meter

#### ions – Type 12

er with integrated displays installed and wired – Dimensions 20 in. H x 16 in. W x 12 in. D ers with integrated displays installed and wired – Dimensions 20 in. H x 20 in. W x 12 in. D ers with integrated displays installed and wired – Dimensions 24 in. H x 20 in. W x 10 in. D ers with integrated displays installed and wired – Dimensions 24 in. H x 24 in. W x 10 in. D ter with remote display installed and wired – Dimensions 20 in. H x 16 in. W x 12 in. D ters with remote displays installed and wired – Dimensions 20 in. H x 16 in. W x 12 in. D ters with remote displays installed and wired – Dimensions 24 in. H x 20 in. W x 10 in. D ters with remote displays installed and wired – Dimensions 24 in. H x 20 in. W x 10 in. D ters with remote displays installed and wired – Dimensions 24 in. H x 24 in. W x 10 in. D

#### r applications – Type 4X

ondensation. If further environmental controls are required such as cooling, then a custom ng for a quote.

| ed   |
|--|
| rs with remote displays installed and wired – Dimensions 30 in. H x 30 in. W x 12 in. D    |
| rs with remote displays installed and wired – Dimensions 30 in. H x 24 in. W x 12 in. D    |
| rs with remote displays installed and wired – Dimensions 24 in. H x 24 in. W x 12 in. D    |
| er with remote display installed and wired – Dimensions 20 in. H x 20 in. W x 12 in. D     |
| s with integrated displays installed and wired – Dimensions 30 in. H x 24 in. W x 12 in. D |
| s with integrated displays installed and wired – Dimensions 24 in. H x 24 in. W x 12 in. D |
| s with integrated displays installed and wired – Dimensions 24 in. H x 20 in. W x 12 in. D |
| r with integrated display installed and wired – Dimensions 20 in. H x 20 in. W x 12 in. D  |

7/480V, 347/600V Wye or 240V, 480V, 600V Delta

or Option 0 – on a per enclosure basis/for Option 7 – on a per meter basis em type – otherwise a custom quote is required

provided for protection of all meters in enclosure ration (1) Multi-Tap CPT provided for control power source

pole fusible disconnect provided for protection of each meter in enclosure ration (1) Multi-Tap CPT provided for control power source

ccommodate 3 CTs per meter

#### iring (available on integrated display meters only. A and X enclosure types)

minal blocks (16 TBs) per meter

minal blocks (24 TBs) per meter

minal blocks and 4 Al's and 4 AO's wired to terminal blocks (40 TBs) per meter

#### blocks included

terminal blocks (3-IN, 3-OUT each COM port) for 12 TBs total

r; CAT5E cable will terminate directly on meter; COM 1 and COM 2 wired to 6 terminal DM port) for 12 TBs total

each meter's comm. ports will be daisy chained together and wired to terminal blocks og termination. Units that have Ethernet will wire exactly the same except the incoming replaced by the meter's comm. port for that network.

## Feeders

### PowerLogic ION6200 Factory Assembled Enclosures

Type 12 and 4X

### Description:

The ION6200 enclosures are an ideal metering solution for high accuracy feeder monitoring and submetering. These pad-lockable enclosures are UL listed and well suited for monitoring multiple services where the loads are fed from the same or separate voltage sources. ION6200 enclosures are capable of monitoring up to four separate sources/loads per panel utilizing one meter with remote display per load. Multiple ION6200 units can be networked together via Ethernet or RS-485 using Modbus, ION, or other industry standard communication protocols.

#### **Features:**

- Assemblies include meters and devices wired to terminal blocks, voltage disconnect(s), and current transformer (CT) shorting block(s).
- Available with multiple meters per panel.
- Serial and Ethernet communications are options for all units.
- Digital and/or analog Input/Output (I/O) are options for all units.
- Tailored to any meter system voltage type:
- Universal voltage for 208, 480, 600 Wye or Delta.
- Supports single- or multiple-voltage sources for indoor (Type 12) and outdoor (Type 4X) applications.
- Wall mountable and easy to install using concealed holes in the back of the enclosure for Type 12 and feet for Type 4X.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish for Type 12. White Aluminum for Type 4X.
- Custom engraved nameplates are available for all units.

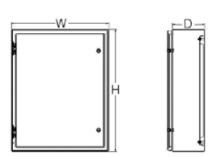






Ordering information:

|       |         |  |     |       |                                |                 |             | Factory Assembled: T   |  |  |  |  |  |
|-------|---------|--|-----|-------|--------------------------------|-----------------|-------------|--|--|--|--|--|--|
| Model | Orde    | er C   | ode |       |                                |                 | Description |  |  |  |  |  |  |
| 9761E |         |  |     |       |                                |                 |             | Typical lead time is 4 weeks   |  |  |  |  |  |
|       | Meter   |  |     |       |                                |                 |             | Meter Type (meter is include   |  |  |  |  |  |
|       | 6200    |  |     |       |                                |                 |             | ION6200 remote display meter   |  |  |  |  |  |
|       |         | Encl   | osu | re Ty | /pe a                          | and             | Met         | er Quantity – indoor applicati   |  |  |  |  |  |
|       |         | R1   |     |       |                                |                 |             | Type 12 enclosure with 1 meter   |  |  |  |  |  |
|       |         | R2   |     |       |                                |                 |             | Type 12 enclosure with 2 mete  |  |  |  |  |  |
|       |         | R3   |     |       |                                |                 |             | Type 12 enclosure with 3 mete  |  |  |  |  |  |
|       |         | R4   |     |       |                                |                 |             | Type 12 enclosure with 4 mete  |  |  |  |  |  |
|       |         | Encl   | osu | re Ty | /pe a                          | and             | Met         | er Quantity – indoor/outdoor   |  |  |  |  |  |
|       |         | Note: All units are equipped with a strip heater to pre<br>design will be required. Please consult with en |     |       |                                |                 |             |  |  |  |  |  |  |
|       |         | Y1   |     |       | Type 4X enclosure with 1 meter |                 |             |  |  |  |  |  |  |
|       |         | Y2   |     |       |                                |                 |             | Type 4X enclosure with 2 meter   |  |  |  |  |  |
|       |         | Y3   |     |       |                                |                 |             | Type 4X enclosure with 3 mete  |  |  |  |  |  |
|       |         | Y4   |     |       |                                |                 |             | Type 4X enclosure with 4 meter   |  |  |  |  |  |
|       |         |  | Me  | eter  | Syst                           | em <sup>.</sup> | Туре        | - PTs and CTs are not includ   |  |  |  |  |  |
|       |         |  | G   |       |                                |                 |             | Three-phase - 120/208V, 277/   |  |  |  |  |  |
|       |         |  |     |       |                                |                 |             | nect and Control Power – for<br>st have the same meter syste   |  |  |  |  |  |
|       |         |  |     | 0     |                                |                 |             | (1) 3-pole fusible disconnect pr<br>universal power input configura                                  |  |  |  |  |  |
|       |         |  |     | 7     |                                |                 |             | Multiple Voltage Sources – 3-p<br>universal power input configura                                    |  |  |  |  |  |
|       |         |  |     |       | СТ                             | Sho             | ortin       | g Block  |  |  |  |  |  |
|       |         |  |     |       | В                              |                 |             | 6-pole CT shorting block to ac   |  |  |  |  |  |
|       |         |  |     |       |                                | Dig             | gital       | and Analog Input/Output Wir  |  |  |  |  |  |
|       |         |  |     |       |                                | 1               |             | None   |  |  |  |  |  |
|       |         |  |     |       |                                | 2               |             | 2 DOs wired to terminal blocks<br>analog I/O – none  |  |  |  |  |  |
|       |         |  |     |       |                                |                 | Co          | mmunications Wiring  |  |  |  |  |  |
|       |         |  |     |       |                                |                 | A           | No communications terminal b   |  |  |  |  |  |
|       |         |  |     |       |                                |                 | В           | COM 1 wired to 6 terminal blo  |  |  |  |  |  |
|       |         |  |     |       |                                |                 | С           | EGX100 with power supply with  |  |  |  |  |  |
|       |         |  |     |       |                                |                 |             | Note: For multi meter panels ea<br>incoming and outgoing termina<br>blocks will be replaced by the n |  |  |  |  |  |
| Exam  | ple: pa | <mark>rt Νι</mark>   | imb | er S  | 976 <sup>.</sup>               | 1E6             | 200         | R1G0B1B  |  |  |  |  |  |
|       |         |  |     |       |                                |                 |             |  |  |  |  |  |  |



Enclosure Dimensions - see ordering information.

Note: For Type 3R, 4, and 4X enclosures, if unit uses door mounted equipment, this equipment will be mounted on an inner swing door. The outer protective door must be opened to access door mounted equipment.

#### Type 12 and 4X ION6200 Meter Enclosures

#### led with enclosure)

#### ions – Type 12

ter with remote display installed and wired – Dimensions 20 in. H x 16 in. W x 8 in. D

ers with remote displays installed and wired – Dimensions 24 in. H x 20 in. W x 8 in. D

ers with remote displays installed and wired – Dimensions 24 in. H x 24 in. W x 8 in. D

ers with remote displays installed and wired – Dimensions 30 in. H x 24 in. W x 8 in. D

#### applications – Type 4X

ndensation. If further environmental controls are required such as cooling, then a custom g for a quote.

er with remote display installed and wired – Dimensions 24 in. H x 20 in. W x 10 in. D

ers with remote displays installed and wired – Dimensions 30 in. H x 24 in. W x 10 in. D

ers with remote displays installed and wired – Dimensions 30 in. H x 30 in. W x 10 in. D

ers with remote displays installed and wired – Dimensions 36 in. H x 30 in. W x 10 in. D

#### ded

/480V, 347/600V Wye or 240V, 480V, 600V Delta

or Option 0 – on a per enclosure basis/for Option 7 – on a per meter basis em type – otherwise a custom quote is required

provided for protection of all meters in enclosure

ration (1) Multi-Tap CPT provided for control power source

pole fusible disconnect provided for protection of each meter in enclosure ration (1) Multi-Tap CPT provided for control power source

ccommodate 3 CTs per meter

#### iring (available on integrated display meters only. A and X enclosure types)

s (2 TBs) per meter;

blocks included

ocks (3-IN, 3-OUT)

ired to Com1 and terminal blocks (3-out) Modbus protocol only

ach meter's comm. ports will be daisy chained together and wired to terminal blocks for both ation. Units that have Ethernet will wire exactly the same except the incoming 2-wire terminal meter's comm. port for that network.

### Feeders

### PowerLogic PM800 Series Factory Assembled Enclosures

Type 12 and 4X

### **Description**:

The PM800 Series enclosures are an ideal metering solution for high accuracy feeder monitoring and submetering. These pad-lockable enclosures are UL listed and well suited for monitoring multiple loads fed from the same or separate voltage sources. PM800 Series enclosures are capable of monitoring up to four separate sources/loads per panel utilizing one remote display meter per load. Multiple PM800 Series units can be networked together via Ethernet or RS-485 using Modbus communication protocol.

#### **Features:**

- Assemblies include meters and devices wired to terminal blocks, voltage disconnect(s), and current transformer (CT) shorting block(s).
- Available with multiple meters per panel.
- Serial and Ethernet communications are options for all units.
- Digital and/or analog Input/Output (I/O) are options for all units.
- Tailored to any meter system voltage type:
- Universal voltage for 208, 480, 600 Wye or Delta.
- Supports single- or multiple-voltage sources for indoor (Type 12) and outdoor (Type 4X) applications.
- Wall mountable and easy to install using concealed holes in the back of the enclosure for Type 12 and feet for Type 4X.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish for Type 12. White Aluminum for Type 4X.
- Custom engraved nameplates are available for all units.





### Feeders

#### Ordering information:

|       |         |                     |       |       | Fact             | tory                         | <mark>' As</mark> | sembled: Type 12 and 4>   |
|-------|---------|---------------------|-------|-------|------------------|------------------------------|-------------------|---|
| Model |         | Orde                | er Co | ode   |                  |                              |                   | Description   |
| 9761E |         |                     |       |       |                  |                              |                   | Typical lead time is 4 weeks<br>Nameplates available upon rec   |
|       | Meter   |                     |       |       |                  |                              |                   | Meter Type (meter is include  |
|       | 0810    |                     |       |       |                  |                              |                   | PM810 remote display meter  |
|       | 0820    |                     |       |       |                  |                              |                   | PM820 remote display meter  |
|       | 0850    |                     |       |       |                  |                              |                   | PM850 remote display meter  |
|       | 0870    |                     |       |       |                  |                              |                   | PM870 remote display meter  |
|       |         | Encl                | osu   | re Ty | /pe a            | and                          | Mete              | er Quantity – indoor applicati  |
|       |         | R1                  |       |       |                  |                              |                   | Type 12 enclosure with 1 meters   |
|       |         | R2                  |       |       |                  |                              |                   | Type 12 enclosure with 2 meter  |
|       |         | R3                  |       |       |                  |                              |                   | Type 12 enclosure with 3 meter  |
|       |         | R4                  |       |       |                  |                              |                   | Type 12 enclosure with 4 meter  |
|       |         | Encl                | osu   | re Ty | /pe a            | er Quantity – indoor/outdoor |                   |   |
|       |         | Note                |       |       |                  |                              |                   | with a strip heater to prevent cor<br>d. Please consult with engineering                              |
|       |         | Y1                  |       |       |                  |                              |                   | Type 4X enclosure with 1 met  |
|       |         | Y2                  |       |       |                  |                              |                   | Type 4X enclosure with 2 meter  |
|       |         | Y3                  |       |       |                  |                              |                   | Type 4X enclosure with 3 meter  |
|       |         | Y4                  |       |       |                  |                              |                   | Type 4X enclosure with 4 meter  |
|       |         |                     | Me    | ter   | Syst             | em '                         | Туре              | - PTs and CTs are not includ  |
|       |         |                     | G     |       |                  |                              |                   | Three-phase - 120/208V, 277/  |
|       |         |                     |       |       | -                |                              |                   | nect and Control Power – for<br>at have the same meter syste  |
|       |         |                     |       | 0     |                  |                              |                   | (1) 3-pole fusible disconnect p<br>universal power input configura                                    |
|       |         |                     |       | 7     |                  |                              |                   | Multiple Voltage Sources – 3-p<br>universal power input configura                                     |
|       |         |                     |       |       | СТ               | Sho                          | ortin             | g Block   |
|       |         |                     |       |       | В                |                              |                   | 6-pole CT shorting block to ac  |
|       |         |                     |       |       |                  | Diç                          | gital             | and Analog Input/Output Wir   |
|       |         |                     |       |       |                  | 1                            |                   | None (No I/O wiring provided)   |
|       |         |                     |       |       |                  | 2                            |                   | 1 DI and 1 DO wired to termina  |
|       |         |                     |       |       |                  | 3                            |                   | 3 DIs and 3 DOs wired to term   |
|       |         |                     |       |       |                  | 4                            |                   | 7 DIs and 3 DOs wired to term   |
|       |         |                     |       |       |                  | 5                            |                   | 2 Als and 2 AOs wired to term<br>Includes default I/O + PM8M2   |
|       |         |                     |       |       |                  |                              | Co                | mmunications Wiring   |
|       |         |                     |       |       |                  |                              | A                 | No communications terminal b  |
|       |         |                     |       |       |                  |                              | в                 | Both RS-485 ports wired to TE<br>TBs (5-IN, 5-OUT)  |
|       |         |                     |       |       |                  |                              | С                 | 1 Ethernet equipped meter; CA   |
|       |         |                     |       |       |                  |                              |                   | Note: For multi meter panels ea<br>incoming and outgoing terminat<br>blocks will be replaced by the n |
| Exam  | ple: pa | <mark>rt N</mark> ı | mb    | er 9  | 976 <sup>.</sup> | 1E0                          | 820               | R1G0B5C   |
| 9761E | 0820    | R1                  | G     | 0     | В                | 5                            | С                 |   |
|       | I       |                     |       |       |                  |                              |                   | 1   |

Enclosure Dimensions - see ordering information.

Note: For Type 3R, 4, and 4X enclosures, if unit uses door mounted equipment, this equipment will be mounted on an inner swing door. The outer protective door must be opened to access door mounted equipment.

#### X PM810, PM820, PM850 and PM870 Meter Enclosures

quest (provide nameplate schedule with order)

#### ded with enclosure)

#### ions – Type 12

ter with remote display installed and wired – Dimensions 20 in. H x 16 in. W x 8 in. D

ers with remote displays installed and wired – Dimensions 24 in. H  $\rm x$  20 in. W  $\rm x$  8 in. D

ers with remote displays installed and wired – Dimensions 24 in. H x 24 in. W x 8 in. D

ers with remote displays installed and wired – Dimensions 30 in. H x 24 in. W x 8 in. D

#### r applications – Type 4X

ndensation. If further environmental controls are required such as cooling, then a custom g for a quote.

ter with remote display installed and wired – Dimensions 24 in. H x 20 in. W x 10 in. D

ers with remote displays installed and wired – Dimensions 30 in. H x 24 in. W x 10 in. D

ers with remote displays installed and wired – Dimensions 30 in. H x 30 in. W x 10 in. D

ers with remote displays installed and wired – Dimensions 36 in. H x 30 in. W x 10 in. D

#### ded

7/480V, 347/600V Wye or 240V, 480V, 600V Delta

### or Option 0 – on a per enclosure basis/for Option 7 – on a per meter basis em type – otherwise a custom quote is required

provided for protection of all meters in enclosure

ration (1) Multi-Tap CPT provided for control power source

pole fusible disconnect provided for protection of each meter in enclosure ration (1) Multi-Tap CPT provided for control power source

ccommodate 3 CTs per meter

#### iring

nal blocks (2 TBs) (default I/O + DC supply) per meter

ninal blocks (6 TBs) (Includes default I/O + PM8M26 + DC supply) per meter

ninal blocks (10 TBs) (Includes default I/O + PM8M26) per meter

ninal blocks and 3 DIs and 3 DOs wired to terminal blocks (14 TBs) 2222 + DC supply) per meter

#### blocks included

Bs 2-Wire port wired to 3 two-tier TBs (3-IN, 3-OUT) and 4-Wire port wired to 5two-tier

AT5E cable will terminate directly on meter; 4-Wire port will be wired to terminal blocks (5-OUT)

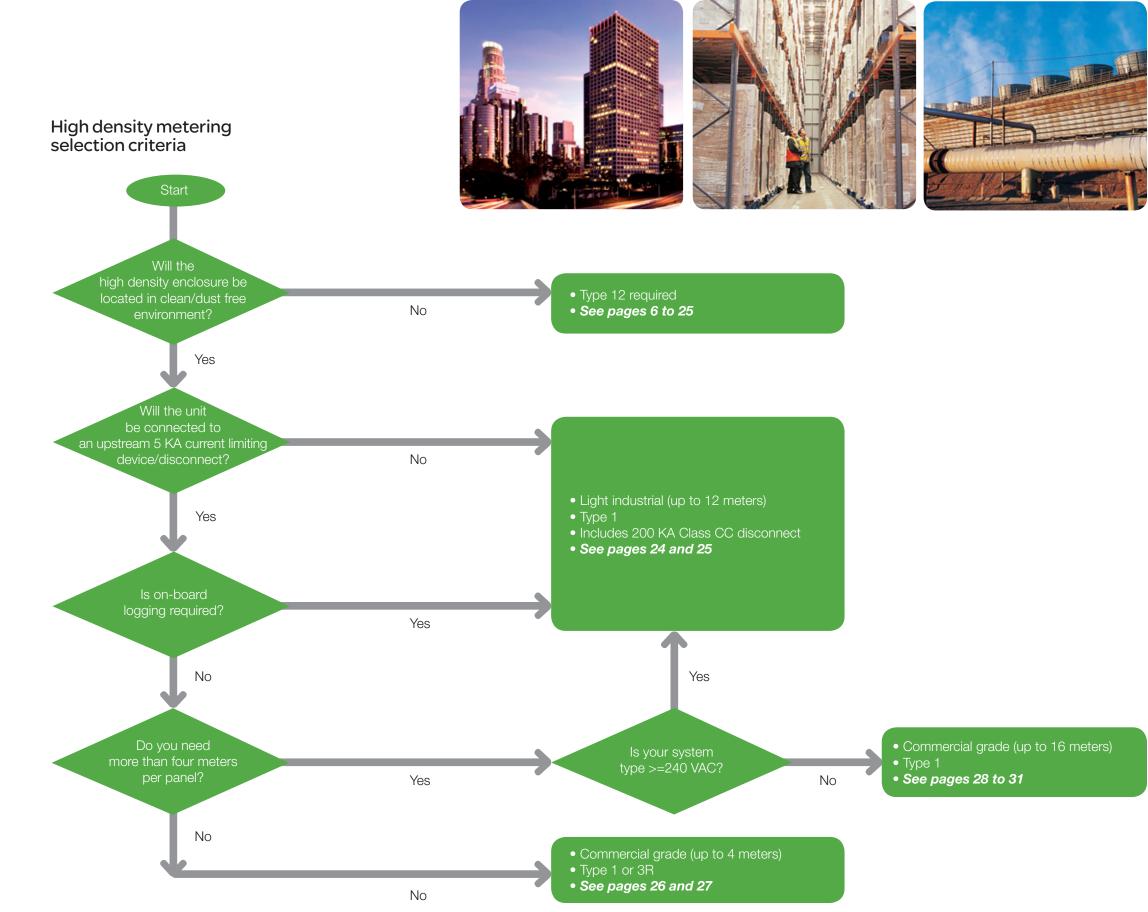
ach meter's comm. ports will be daisy chained together and wired to terminal blocks for both ation. Units that have Ethernet will wire exactly the same except the incoming 4-wire terminal meter's comm. port for that network.

### High density metering enclosures are available to meet a variety of needs

• Economical commercial-grade applications

Light industrial

Please use the decision tree to help make sure the correct metering enclosure is applied at your facility.



PowerLogic Factory Assembled Equipment

PowerLogic Factory Assembled Equipment

23

### PowerLogic ION6200/PM820 Power Meter Factory Assembled Enclosures

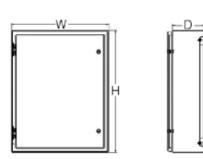
Type 1

### **Description:**

The ION6200/PM820 power meter enclosures are ideal high density metering solutions for commercial and light industrial applications, such as office parks, condominiums, apartments, retail centers, and others requiring revenue accuracy. These Type 1 pad-lockable enclosures are well suited for monitoring services where multiple panelboards are fed from the same voltage source. Light industrial enclosures are capable of monitoring up to 12 separate loads per panel utilizing one remote display meter per load. Multiple light industrial units can be networked together via RS-485 using Modbus or ION communication protocol.

#### Features:

- Assemblies include meters and devices wired to terminal blocks, fusible voltage disconnect(s), and six-pole ring lug current transformer (CT) shorting block(s).
- Available with multiple meters per panel.
- Serial communications are available for the ION6200.
- Serial and Ethernet are options for the PM820.
- Tailored to any meter system voltage type: - Universal voltage for 208, 480, 600 Wye or Delta.
- Supports single-voltage sources for indoor (Type 1) applications.
- Digital and/or analog Input/Output (I/O) options are not available on light industrial enclosures.
- Wall mountable and easy to install using concealed holes in the back of the enclosure.
- Carbon steel construction, with industry standard ANSI 61 gray powder-coat finish.
- Custom engraved nameplates are available for all units.



Enclosure Dimensions - see ordering information.

Note: For Type 3R, 4, and 4X enclosures, if unit uses door mounted equipment, this equipment will be mounted on an inner swing door. The outer protective door must be opened to access door mounted equipment.

|          | A LOCAL ALLANDA ALLAND |
|----------|--|
|          |  |
| PowerLog | 9  |



### **High Density Metering**

#### Ordering information:

|        |         |      |           | Factory Assembled: Type 1 Light Industrial Meter Enclosures   |
|--------|---------|------|-----------|---|
| Model  |         | Orde | er Code   | Description   |
| 9761C  |         |      |           | Light industrial Type 1 enclosures<br>Includes fusible disconnect, CT shorting block, and wired for serial comms<br>This enclosure offer utilizes remote display meters only – (meter(s) included in pricing)<br>Digital and analog I/O N/A for this offering<br>Typical lead time is 4 weeks for this offering<br>Enclosures are equipped with pad-lockable latch<br>Nameplates available upon request (provide nameplate schedule with order) |
|        | Meter   | r    |           | Meter Type – price is on a per meter basis (meter quantity X price)   |
| [      | 6200    |      |           | ION6200 remote display meter – (meter part # S6200R1A0B0A0B0R)  |
|        | 082X    |      |           | PM820 remote display meter – (meter part # PM820RD)   |
|        | 0820    |      |           | PM820 remote display meter – Includes (1) ECC (meter part # PM820RD)  |
|        | 085X    |      |           | PM850 remote display meter – (meter part # PM850RD)   |
|        | 0850    |      |           | PM850 remote display meter – Includes (1) ECC (meter part # PM850RD)  |
|        | 087X    |      |           | PM870 remote display meter – (meter part # PM870RD)   |
|        | 0870    |      |           | PM870 remote display meter - Includes (1) ECC (meter part # PM870RD)  |
|        |         | Enc  | losure Si | ze – indoor applications – Type 1   |
|        |         | AO   |           | 1 meter box – Dimensions 14 in. H x 14 in. W x 6.5 in. D Type 1 enclosure   |
|        |         | B0   |           | 2 meter box – Dimensions 21 in. H x 14 in. W x 6.5 in. D Type 1 enclosure   |
|        |         | CO   |           | 4 meter box – Dimensions 21 in. H x 26 in. W x 6.5 in. D Type 1 enclosure   |
|        |         | DO   |           | 6 meter box – Dimensions 27 in. H x 26 in. W x 6.5 in. D Type 1 enclosure   |
|        |         | EO   |           | 8 meter box – Dimensions 35 in. H x 26 in. W x 6.5 in. D Type 1 enclosure   |
|        | FO      |      |           | 10 meter box – Dimensions 44 in. H x 26 in. W x 6.5 in. D Type 1 enclosure  |
|        |         | G0   |           | 12 meter box – Dimensions 52 in. H x 26 in. W x 6.5 in. D Type 1 enclosure  |
|        |         |      | Meters    | Installed – includes 6-pole CT shorting block to accommodate 3 CTs per meter and serial comm.   |
|        |         |      | A         | 1 meter installed and wired   |
|        |         |      | В         | 2 meters installed and wired  |
|        |         |      | С         | 3 meters installed and wired  |
|        |         |      | D         | 4 meters installed and wired  |
|        |         |      | E         | 5 meters installed and wired  |
|        |         |      | F         | 6 meters installed and wired  |
|        |         |      | G         | 7 meters installed and wired  |
|        |         |      | H         | 8 meters installed and wired  |
|        |         |      |           | 9 meters installed and wired  |
|        |         |      | J         | 10 meters installed and wired   |
|        |         |      | K         | 11 meters installed and wired   |
|        |         |      | L         | 12 meters installed and wired   |
|        |         |      | 7         | ter System Type Multiple Voltage Sources – 3-pole fusible disconnect provided for protection of each meter in enclosure   |
|        |         |      |           | universal power input configuration (1) Multi-Tap CPT provided for control power source   |
| Exam   | ple: pa | 1    | 1 1       | 9761E6200A0A7   |
| 9761C  | 6200    | A0   | A 7       |   |
|        |         |      |           |   |
|        |         |      |           | Light Industrial Type 1 Enclosure Expansion KIT   |
| 97161C | KIT     |      |           | Voltage, control power, and RS-485 comms pre-wired via pig tails (field wiring required)<br>Typical lead time is 3 weeks  |
|        | _       | Mete | r         | Existing Meter Type   |
|        |         | 6200 |           | ION6200 remote display meter  |

| PowerLogic | Factory | <sup>r</sup> Assembled | Equipmen |
|------------|---------|------------------------|----------|

0820

0850

0870

0820

9761CKIT

Example: part Number 9761CKIT0820

PM820 remote display meter

PM850 remote display meter

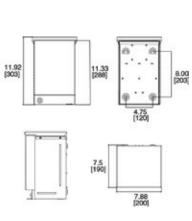
PM870 remote display meter

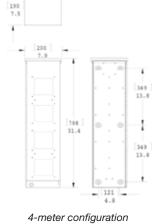
### PowerLogic High Density Metering (HDM) Enclosures

Type 1

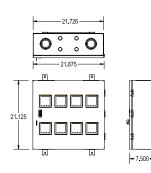
### **Description:**

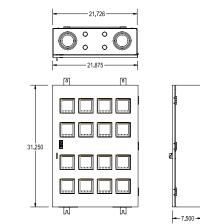
HDM cabinets are an ideal low installed cost solution for indoor commercial applications where a small footprint is required. These highly accurate enclosed meters are available in single, four-meter column width, eight-meter, and 16-meter configurations. These Type 1 enclosures are painted to match ANSI 49 specifications and can come equipped with ION6200, PM750, or PM210 power meters. One-meter HDM cabinets equipped with ION6200 are also offered as Type 3R for indoor or outdoor applications.





1-meter configuration





8-meter configuration

16-meter configuration

| Name   | Description   |
|--|---|
| Auxiliary wiring harness<br>Part # HDMPMHKIT | Wiring harness for installation of additional meters in 4-, 8-, 16-meter enclosures (includes connectors and shorting terminal blocks). |
| Cover plate<br>Part # HDMPMCVRPLT            | Additional cover for empty meter space.   |

NOTE: Additional accessories - 5A current tranformers are available separately.



The flexible one-meter HDM is available in Type 3R (outdoor) when equipped with ION6200 or Type 1 (indoor) cabinets and can be equipped with either PM210, PM750, or ION6200 meters.



PowerLogic high density metering four-meter column width cabinets are the ideal space saving solution.

| 1000 C |  |
|--------|--|
|        |  |
|        |  |
|        |  |

PowerLogic high density metering solutions enable you to monitor, allocate, and invoice your facility's electrical usage.

## **High Density Metering**

#### Ordering information – A:

|         |                        |   |   |  |  | Factory Assembled: Ty   |
|---------|------------------------|---|---|--|--|---|
|         | Orde                   | er Co   | ode   |  |  | Description   |
|         |                        |   |   |  |  | Commercial grade Type 1 or 3F   |
| Meter   |                        |   |   |  |  | Meter Type  |
| 6200    |                        |   |   |  |  | ION6200 power meter with inte   |
| PM210   |                        |   |   |  |  | PM210 power meter   |
| PM750   |                        |   |   |  |  | PM750 power meter   |
|         | Volta                  | age   |   |  |  |   |
|         | 12                     |   |   |  |  | 208Y/120V Wye, 240V Delta   |
|         | 48                     |   |   |  |  | 480Y/277V Wye (PM210/PM75   |
|         | 4T                     |   |   |  |  | With 2.5:1 CPT; 480Y/277 Wye  |
|         |                        | Ph  | asin  | g  |  |   |
|         |                        | 1   |   |  |  | Single-phase (PM210 only)   |
|         |                        | 3   |   |  |  | Three-phase   |
|         |                        |   | En  | clos   | ure \$   | Size  |
|         |                        |   | 1   |  |  | Single dimensions 11.92 in. H >   |
|         |                        |   | 4   |  |  | Capacity for up to 4 meters – E   |
|         |                        |   |   | # o  | of Me  | eters   |
|         |                        |   |   | 1-4  | Ļ  | Enter number of meters to be p  |
|         |                        |   |   |  | En   | closure Rating  |
|         |                        |   |   |  | R  | Type 3R (6200) – leave blank fo   |
| ple: pa | rt Nu                  | ımb   | oer I   | HDI  | M62  | 2004T342R   |
| 6200    | 4T                     | 3   | 4   | 2  | R  | Description: high density meter<br>four-meter cabinet/two meters  |
|         | 6200<br>PM210<br>PM750 | Meter         6200         PM210         PM750         12         48         4T | Weter         6200         PM210         PM750         Voltage         12         48         4T         1         3 | 6200<br>PM210<br>PM750<br>Voltage<br>12<br>48<br>4T<br>Phasin<br>1<br>3<br>En<br>1<br>4<br>9<br>1<br>1<br>3<br>1<br>4<br>1<br>3<br>1<br>1<br>4<br>1<br>3<br>1<br>1<br>4<br>1<br>1<br>3<br>1<br>1<br>4<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | Meter<br>6200<br>PM210<br>PM750<br>Voltage<br>12<br>48<br>4T<br>Phasing<br>1<br>3<br>Enclos<br>1<br>4<br>4<br>4<br>4<br>4<br>4<br>1<br>3<br>Enclos<br>1<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4 | Meter         6200         PM210         PM750         Voltage         12         48         4T         Phasing         1         3         Enclosure         1         4         4         4         4         4         4         1         4         4         1         4         4         4         1         4         1         4         1         4         1         4         1         4         4         1         4         1         4         1         1         1         4         1         4         1         4         1         4         1         4         1         1         < |

### Ordering information – B:

|          |                |   |   |   |   |  | Factory Assembled  |
|----------|----------------|---|---|---|---|--|--|
|          | Ord            | ler C   | Code  | •   |   |  | Description  |
|          |                |   |   |   |   |  | Commercial grade Type 1 high   |
| Meter    |                |   |   |   |   |  | Meter Type   |
| PM210    |                |   |   |   |   |  | PM210 power meter  |
| PM750    |                |   |   |   |   |  | PM750 power meter  |
|          | Vol            | tage  | •   |   |   |  |  |
|          | 12             |   |   |   |   |  | 208Y/120V Wye, 240V Delta  |
|          | 48             |   |   |   |   |  | 480Y/277V Wye  |
|          |                | Ph  | asin  | g   |   |  |  |
|          |                | 1   |   |   |   |  | Single-phase (PM210 only)  |
|          |                | 3   |   |   |   |  | Three-phase  |
|          |                |   | En  | clos  | ure   | Size   |  |
|          |                |   | 8   |   |   |  | Dimensions 21.13 in. H X 21.8  |
|          |                |   | 16  |   |   |  | Dimensions 31.25 in. H X 21.8  |
|          |                |   |   | # o   | f M   | eters  |  |
|          |                |   |   | 1-1   | 6   |  | Enter number of meters to be p   |
| ple: pai | rt Nu          | umb   | ber l   | HDI   | ИP  | M21(   | 04811614   |
| PM210    | 48             | 1   | 16  | 14  |   |  |  |
|          | PM210<br>PM750 | Meter           PM210           PM750           Vol           12           48           9           9           9           9           9           9           9           9           9           12           48           9           9           9           9           9           9           9           9           10           12           12           13           14           15           16           17           18           19           10           10           10           11           12           13           14           15           16           17           18           19           10           10           10           10           10           10 | Meter           PM210           PM750           Voltage           12           48           Ph           1           3           ple: part Numb | Meter           PM210           PM750           Voltage           12           48           Phasin           1           3           En           8           16           ple: part Number | PM210<br>PM750<br>Voltage<br>12<br>48<br>Phasing<br>1<br>3<br>Enclos<br>8<br>16<br># 0<br>1-1<br>19<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | Meter           PM210           PM750           Voltage           12           48           Phasing           1           3           Enclosure           8           16           # of M           1-16           ple: part Number HDMP | Meter           PM210           PM750           Voltage           12           48           Phasing           1           3           Enclosure Size           8           16           # of Meters           1-16 |

#### pe 1 or 3R Commercial Meter Enclosures

R high density meter enclosure for 1-to-4 meters

egrated display (use for 600V applications)

50 only)

e (6200); 480V Delta (6200, PM210, PM750); 600Y/347V Wye and 600V Delta (6200)

X 7.86 in. W X 7.5 in. D

Dimensions 31.4 in. H X 7.9 in. W X 7.5 in. D

pre-installed

or indoor enclosure

ring cabinet/PowerLogic ION6200 power meter/480Y/277V W/Three-phase/ : installed, Type 3R (outdoor)

#### : Type 1 Commercial Meter Enclosures

h density power meter enclosure for 8 or 16

88 in. W X 7.5 in. D

88 in. W X 7.5 in. D

e pre-installed

### PowerLogic MCM Factory Assembled Enclosures

Type 12 and 4X

### **Description**:

The multiple circuit meter (MCM) enclosure is an ideal sub-metering solution for commercial and industrial applications where multiple panelboards are fed from the same voltage source. These Type 12 and 4X pad-lockable MCM enclosures are capable of monitoring up to eight separate loads per panel. Multiple MCM units can be networked together via RS-485 using Modbus communication protocol.

#### Features:

- Assemblies include meters and devices wired to terminal blocks, voltage disconnect(s), and current transformer (CT) shorting block(s).
- Serial comms are default for all units.
- Tailored to any meter system voltage type:
- Universal voltage for 208, 480, 600 Wye or Delta.
- Supports single-voltage sources for indoor (Type 12) and outdoor (Type 4X) applications.
- Digital Input/Output (I/O) and/or analog Input/Output (I/O) options are not available on the MCM enclosure.
- Wall mountable and easy to install using concealed holes in the back of the enclosure for Type 12 and feet for Type 4X.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish for Type 12. White Aluminum for Type 4X.
- Custom engraved nameplates are available for all units.

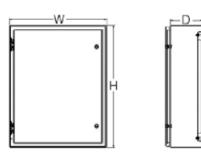




## **High Density Metering**

#### Ordering information:

| Model |         | Orde   | er Co | ode    |                |          | Description  |
|-------|---------|--------|-------|--------|----------------|----------|--|
| 9761E |         |        |       |        |                |          | Typical lead time is 5 weeks<br>Nameplates available upon req  |
|       | Meter   |        |       |        |                |          | Meter Type   |
|       | MCM     |        |       |        |                |          | MCM multi-meter unit   |
|       |         | Enc    | losu  | re Ty  | vpe a          | and I    | Meter Quantity – indoor application  |
|       |         | R1     |       |        |                |          | Type 12 enclosure with 1 MCN   |
|       |         | T1     |       |        |                |          | Type 12 enclosure with 1 MCN   |
|       |         | Enc    | losu  | re Ty  | vpe a          | and I    | Meter Quantity – indoor/outdoor a  |
|       |         | Note   |       |        |                |          | ped with a strip heater to prevent con<br>uired. Please consult with engineering   |
|       |         | Y1     |       |        |                |          | Type 4X enclosure with 1 MCN   |
|       |         | Z1     |       |        |                |          | Type 4X enclosure with 1 MCN   |
|       |         |        | Me    | ter \$ | Syst           | em 1     | ype – PTs and CTs are not includ   |
|       |         |        | G     |        |                |          | Three-phase – 120/208V, 277/   |
|       |         |        |       | Vol    | tage           | Dis      | connect and Control Power  |
|       |         |        |       | 0      |                |          |  |
|       |         |        |       | 0      |                |          | (1) 3-pole fusible disconnect pr<br>universal power input configura  |
|       |         |        |       |        | ст             | Sho      |  |
|       |         |        |       |        | <b>СТ</b><br>А | Sho      | universal power input configura  |
|       |         |        |       |        |                | Sho      | universal power input configura  |
|       |         |        |       |        | А              | Sho      | rting Block<br>4-pole CT shorting block to ac  |
|       |         |        |       |        | A<br>B         |          | universal power input configura<br>rting Block<br>4-pole CT shorting block to ac<br>6-pole CT shorting block to ac   |
|       |         |        |       |        | A<br>B         |          | rting Block<br>4-pole CT shorting block to ac<br>6-pole CT shorting block to ac<br>8-pole CT shorting block to ac  |
| Exam  | ple: pa | urt Nu | umb   |        | A<br>B<br>C    | Dig<br>1 | rting Block<br>4-pole CT shorting block to ac<br>6-pole CT shorting block to ac<br>8-pole CT shorting block to ac<br>10-00 CT shorting block to ac<br>10-00 CT shorting block to ac<br>10-00 CT shorting block to ac |



Enclosure Dimensions - see ordering information.

Note: For Type 3R, 4, and 4X enclosures, if unit uses door mounted equipment, this equipment will be mounted on an inner swing door. The outer protective door must be opened to access door mounted equipment.

#### Type 12 and 4X MCM Meter Enclosures

equest (provide nameplate schedule with order)

#### tions – Type 12

M with remote display installed and wired – Dimensions 30 in. H x 30 in. W x 10 in.D

M (no display) installed and wired – Dimensions 30 in. H x 30 in. W x 10 in. D

#### r applications – Type 4X

ndensation. If further environmental controls are required such as cooling, then a custom ig for a quote.

M with remote display installed and wired – Dimensions 36 in. H x 36 in. W x 12 in. D

M (no display) installed and wired – Dimensions 36 in. H x 36 in. W x 12 in. D

#### ded

7/480V, 347/600V Wye or 240V, 480V, 600V Delta

provided for protection of all meters in enclosure ration (1) Multi-Tap CPT provided for control power source

ccommodate (2) CTs per metering point, 8 – total points (One-phase or Three-phase)

ccommodate (3) CTs per metering point, 8 – total points (Three-phase)

ccommodate (4) CTs per metering point, 6 - total points (Three-phase)

#### iring

### E5600 Class 200 Self-Contained Factory Assembled Enclosures

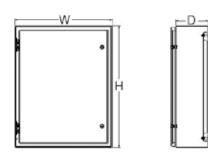
Type 3R

### **Description:**

The E5600 Series socket meter enclosure is an ideal metering solution for commercial and light industrial applications, such as office parks, condominiums, apartments, retail centers, and others requiring revenue accuracy. These units are self-contained such that they have integrated revenue grade current transformers (CTs) in the meter itself and do not require any remote CTs. This industrial enclosure is UL listed and equipped with pad-lockable latch and removable door. Multiple 5600 units can be networked together via RS-485 using Modbus communication protocol.

#### Features:

- Assemblies include meter and enclosure.
- Serial communications are options for all units.
- Digital and/or analog Input/Output (I/O) are not available for this offer.
- Units are available with or without lever bypass.
- Tailored to the following system voltage types:
- 240/120V Single-phase.
- 208/120V Three-wire network.
- 120V, 240V, and 480V Delta.
- Supports single-voltage sources for outdoor (Type 3R) applications.
- Wall mountable and easy to install using concealed holes in back of the enclosure.
- Galvanized carbon steel construction with industry standard ANSI 61 gray powder-coat finish.
- Custom engraved nameplates are available for all units.



Enclosure Dimensions - see ordering information.



### **High Density Metering**

#### Ordering information:

|      |               |          | Factory     | Assembled: Type 3R 560   |
|------|---------------|----------|-------------|--|
| Mode |               | Ord      | er Code     | Description  |
| 9761 |               | <u> </u> |             | Industrial Type 3R meter end<br>All enclosures equipped with<br>Typical lead time is 4-to-5 w<br>Enclosures are equipped with<br>Nameplates available upon i |
|      | Meter         |          |             | Meter Type – price is on a   |
|      | E5600020SQD   |          |             | E5600 socket meter, form 2   |
|      | E5600120SQD   |          |             | E5600 socket meter, form 1   |
|      | E5600160SQD   |          |             | E5600 socket meter, form 1   |
|      |               | Enc      | losure Type | and Meter Quantity - indoor/   |
|      |               | AO       |             | Type 3R ringless enclosure v<br>without lever bypass   |
|      |               | A1       |             | Type 3R ringless enclosure v<br>lever bypass   |
|      |               | B1       |             | Type 3R ringless enclosure v<br>lever bypass   |
|      |               | CO       |             | Type 3R ringless enclosure v<br>lever bypass   |
| Exam | ple: part Nun | nber     | 9761E560    | 00120SQDB1   |
| 9761 | E5600120SQD   | B1       |             |  |

#### 00 Class 200 Self-contained Meter Enclosures

nclosure UL listed (meter(s) included in pricing) th 1 piece lift off cover weeks for this offering vith pad-lockable latch in request (provide nameplate schedule with order)

#### a per enclosure basis

2S, Single-phase, Class 200, S based meter (meter part # E5600020SQD)

2S, Single-phase, Class 200, S based meter (meter part # E5600120SQD)

I6S, Single-phase, Class 200, S based meter (meter part # E5600160SQD)

#### outdoor applications – Type 3R

with 1 form 2S meter installed – Dimensions 15.5 in. H X 13 in. W X 4.875 in. D

with 1 form 2S meter installed – Dimensions 19 in. H X 13 in. W X 4.875 in. D with

```
with 1 form 12S meter installed – Dimensions 19 in. H X 13 in. W X 4.875 in. D with
```

with 1 form 16S meter installed – Dimensions 19 in. H X 13 in. W X 4.875 in. D with

### PowerLogic EGX Gateway Communications Factory Assembled Enclosures

Type 12 and 4X

### Description:

The EGX Gateway communications enclosures are an ideal solution for communications integration for high-speed access to critical information. These pad-lockable enclosures are UL listed and are well suited for providing Ethernet connectivity to downstream-connected new and existing system-wide serial equipment. Multiple units can be networked together via RS-485 and Ethernet using Modbus communication protocol. EGX enclosures are available for either EGX100 or EGX300 gateways.

#### Features:

- Assemblies include devices wired to terminal blocks and one-pole circuit breaker for 120 VAC control power.
- Available with multiple devices per panel.
- Serial and Ethernet communications are options for all units.
- Supports indoor (Type 12) and outdoor (Type 4X) applications for up to three devices.
- Digital Input/Output (I/O) and/or analog Input/Output (I/O) options are not available.
- Wall mountable and easy to install using concealed holes in the back of the enclosure for Type 12 and feet for Type 4X.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish for Type 12. White Aluminum for Type 4X.
- Custom engraved nameplates are available for all units.





## Communications

Ordering information:

|         |         |       | Factor            | y Assembled: Type 12 and 4X   |
|---------|---------|-------|-------------------|---|
| Model   |         | Ord   | er Code           | Description   |
| 9761EGX |         |       |                   | EGX 100 and 300 enclosure UL list<br>Each unit is equipped with a 1-pole<br>Typical lead time is 4 weeks for this<br>Enclosures are equipped with pad-<br>Nameplates available upon request |
|         | Devic   | ce    |                   | Device Type – Price is on a per   |
|         | 100     |       |                   | EGX100 communications gateway   |
|         | 300     |       |                   | EGX300 communications gateway   |
|         |         | Enc   | losure Type       | <ul> <li>indoor applications – Type 12</li> </ul>   |
|         |         | C0    |                   | Compact Type 12 enclosure with 1  |
|         |         | TO    |                   | Type 12 enclosure with 1-EGX insta  |
|         |         | T1    |                   | Type 12 enclosure with 1-EGX and Dimensions 16 in. H X 16 in. W X 8   |
|         |         | T2    |                   | Type 12 enclosure with 2-EGX's an<br>Dimensions 16 in. H X 16 in. W X 8   |
|         |         | Т3    |                   | Type 12 enclosure with 3-EGX's an<br>Dimensions 16 in. H X 16 in. W X 8   |
|         |         | Enc   | losure Type       | - indoor/outdoor applications - Type  |
|         |         | Note  |                   | equipped with a strip heater to prevent co<br>e required. Please consult with engineeri   |
|         |         | ZO    |                   | Type 4X enclosure with 1-EGX insta  |
|         |         | Z1    |                   | Type 4X enclosure with 1-EGX and Dimensions 24 in. H X 20 in. W X 8   |
|         |         | Z2    |                   | Type 4X enclosure with 2-EGX's an<br>Dimensions 24 in. H X 20 in. W X 8   |
|         |         | Z3    |                   | Type 4X enclosure with 3-EGX's an<br>Dimensions 24 in. H X 20 in. W X 8   |
|         |         | Note  | : EGX(s) will b   | e pre-wired to terminal blocks for RS485  |
| Example | e: part | t Nun | nber 97 <u>61</u> | EGX100T1  |
| 9761EGX | 100     | T1    |                   |   |
|         |         |       |                   |   |

Enclosure Dimensions - see ordering information.

#### EGX 100 and 300 Communication Gateway Enclosures

sted (EGX(s) included in pricing)

ole circuit breaker for 120 VAC control power and 50W – 24V DC supply is offering

1-lockable latch

st (provide nameplate schedule with order)

#### device basis (device quantity X price)

(device part # EGX100SD)

(device part # EGX300SD)

I-EGX installed and wired – Dimensions 12 in. H X 10 in. W X 6 in. D

talled and wired – Dimensions 16 in. H X 16 in. W X 8 in. D

d (4-copper and 1-fiber) Ethernet switch (N-TRON 105FX-SC) installed and wired – 8 in. D

nd (4-copper and 1-fiber) Ethernet switch (N-TRON 105FX-SC) installed and wired – 8 in. D

nd (4-copper and 1-fiber) Ethernet switch (N-TRON 105FX-SC) installed and wired – 8 in. D

#### pe 4X

condensation. If further environmental controls are required such as cooling, then a custom ring for a quote.

talled and wired – Dimensions 24 in. H X 20 in. W X 8 in. D

d (4-copper and 1-fiber) Ethernet switch (N-TRON 105FX-SC) installed and wired – 8 in. D

nd (4-copper and 1-fiber) Ethernet switch (N-TRON 105FX-SC) installed and wired – 8 in. D

nd (4-copper and 1-fiber) Ethernet switch (N-TRON 105FX-SC) installed and wired – 8 in. D

sin. D

5 communications (5 -TBs per EGX comm port).

### PowerLogic ION7550RTU Factory Assembled Enclosures

Type 12 and 4X

### **Description:**

The ION7550RTU enclosure is an ideal solution for communications integration and data consolidation for high-speed access to critical information. These pad-lockable enclosures are UL listed and well suited for providing Ethernet connectivity to downstream-connected devices. Multiple ION7550RTU units can be networked together via Ethernet or RS-485 using Modbus, ION, or other industry standard communication protocols.

#### Features:

- Assemblies include devices wired to terminal blocks and one-pole circuit breaker for 120 VAC control power.
- Available with multiple devices per panel.
- Digital and/or analog Input/Output (I/O) are options for all units.
- Serial and Ethernet communications are options for all units.
- Supports indoor (Type 1 and 12) and outdoor (Type 4X) applications up to four devices.
- Wall mountable and easy to install using concealed holes in the back of the enclosure for Type 12 and feet for Type 4X.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish for Type 12. White Aluminum for Type 4X.
- Custom engraved nameplates are available for all units.

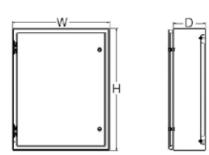




## **Communications**

Ordering information:

| Model  | Order Code             | Description   |
|--------|------------------------|---|
| 9761E  |                        | Typical lead time is 5 weeks<br>Nameplates available upon request (provide nameplate schedule with order)   |
| Device | 9                      | Device Type (device is included with enclosure)   |
| 75RTU  |                        | ION7550 RTU communications gateway  |
|        | Enclosure Type -       | indoor applications – Type 12   |
|        | A1                     | Type 12 enclosure with 1 integrated display RTU installed and wired – Dimensions 20 in. H x 16 in. W x 12 in. D   |
|        | A2                     | Type 12 enclosure with 2 integrated display RTUs installed and wired – Dimensions 24 in. H x 24 in. W x 12 in. D  |
|        | A3                     | Type 12 enclosure with 3 integrated display RTUs installed and wired – Dimensions 30 in. H x 24 in. W x 10 in. D  |
|        | A4                     | Type 12 enclosure with 4 integrated display RTUs installed and wired – Dimensions 30 in. H x 30 in. W x 10 in. D  |
|        | T1                     | Type 12 enclosure with 1 RTU (no display) installed and wired – Dimensions 20 in. H x 20 in. W x 12 in. D   |
|        | T2                     | Type 12 enclosure with 2 RTU (no display) installed and wired – Dimensions 24 in. H x 20 in. W x 10 in. D   |
|        | ТЗ                     | Type 12 enclosure with 3 RTU (no display) installed and wired – Dimensions 36 in. H x 30 in. W x 10 in. D   |
|        | T4                     | Type 12 enclosure with 4 RTU (no display) installed and wired – Dimensions 36 in. H x 30 in. W x 10 in. D   |
|        | Note: All units are ec | indoor/outdoor applications – Type 4X<br>juipped with a strip heater to prevent condensation. If further environmental controls are required such as cooling, then a custom<br>required. Please consult with engineering for a quote. |
|        | X1                     | Type 4X enclosure with 1 integrated display RTU installed and wired – Dimensions 24 in. H x 20 in. W x 12 in. D   |
|        | X2                     | Type 4X enclosure with 2 integrated display RTUs installed and wired – Dimensions 24 in. H x 24 in. W x 12 in. D  |
|        | ХЗ                     | Type 4X enclosure with 3 integrated display RTUs installed and wired – Dimensions 30 in. H x 24 in. W x 12 in. D  |
|        | X4                     | Type 4X enclosure with 4 integrated display RTUs installed and wired – Dimensions 30 in. H x 30 in. W x 12 in. D  |
|        | Z1                     | Type 4X enclosure with 1 integrated display RTU installed and wired – Dimensions 24 in. H x 24 in. W x 10 in. D   |
|        | Z2                     | Type 4X enclosure with 2 integrated display RTUs installed and wired – Dimensions 30 in. H x 24 in. W x 10 in. D  |
|        | Z3                     | Type 4X enclosure with 3 integrated display RTUs installed and wired – Dimensions 36 in. H x 30 in. W x 10 in. D  |
|        | Z4                     | Type 4X enclosure with 4 integrated display RTUs installed and wired – Dimensions 36 in. H x 30 in. W x 10 in. D  |
|        | Digital and A          | nalog I/O Wiring  |
|        | A                      | None  |
|        | В                      | 8 DIs, 4 DOs, and 3 relay Outputs wired to terminal blocks (33 TBs) per device  |
|        | С                      | 16 DIs wired to terminal blocks and 4 AIs and 4 AOs wired to terminal blocks (56 TBs) per device  |
|        | D                      | 16 Dls, 4 DOs and 3 form C relay Outputs wired to terminal blocks and 4 Als and 4 AOs wired to terminal<br>blocks (73 TBs) per device   |
|        | Commur                 | nications Wiring  |
|        | 1                      | No communications terminal blocks included  |
|        | 2                      | COM 1 and COM 2 wired to 3 - Two Tier TBs (3-IN, 3-OUT each COM port) for 6 TBs total   |
|        | 3                      | 1 100BaseT Ethernet and 100BaseFL equipped meter; CAT5E and Fiber cables will terminate directly on meter; COM 1 and COM 2 wired to 3-Two Tier TBs (3-IN, 3-OUT each COM port) for 6 TBs total  |
|        |                        | Note: For multi-meter panels for each RS-485 network there will be 3 TBs for incoming COMMs to first meter and 3 TBs<br>outgoing COMMs off last meter. Each meter in panel will be daisy chained together.                            |
|        | rt Number 9761E        |   |



Enclosure Dimensions - see ordering information.

Note: For Type 3R, 4, and 4X enclosures, if unit uses door mounted equipment, this equipment will be mounted on an inner swing door. The outer protective door must be opened to access door mounted equipment.

### PowerLogic NR&D Factory Assembled Enclosures

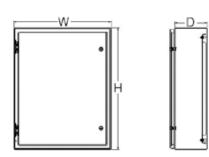
Type 12 and 4X

#### Description:

The NR&D industrial communications enclosures for MUCM, QUCM, EPE5, SPE4, and MEB are ideal solutions for non-industry standard communications integration and data consolidation for high-speed access to critical information. These UL listed pad-lockable enclosures are well suited for the Ethernet integration of new and existing system-wide serial equipment. These units also can serve as standalone data concentrators and protocol translators for third-party systems such as Cutler Hammer and Caterpillar. Multiple NR&D units can be networked together via Ethernet or RS-485 using Modbus, industry standard, and proprietary communication protocols.

#### Features:

- Assemblies include devices wired to terminal blocks and one-pole circuit breakers for 120 VAC control power.
- Equipped with GFCI receptacle for convenience.
- Available with multiple devices per panel.
- Serial and Ethernet communications are options for all units.
- For indoor (Type 12) and outdoor (Type 4X) applications.
- Communication units do not come equipped with any digital Input/ Output (I/O) and/or analog Input/Output (I/O) options.
- Wall mountable and easy to install using concealed holes in the back of the enclosure for Type 12 and feet for Type 4X.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish for Type 12. White Aluminum for Type 4X.
- Custom engraved nameplates are available for all units.



Enclosure Dimensions - see ordering information.





### Communications

Ordering information:

|      |          | Orde     | r Code               | Description  |
|------|----------|----------|----------------------|--|
| 9788 |          | 1        |                      | Communications enclosure UL<br>Each unit is equipped with a 1<br>Typical lead time is 5 weeks fo<br>Enclosures are equipped with<br>Nameplates available upon rec  |
|      | Device   |          |                      | Device Type – price is on a  |
|      | QUCM     |          |                      | NR&D QUCM-OE communica   |
|      | MUCM     |          |                      | NR&D MUCM communication  |
|      |          | Encl     | osure Type           | - indoor applications – Type 12  |
|      |          | TO       |                      | Type 12 enclosure with 1-MUC   |
|      |          | T1       |                      | Type 12 enclosure with 1-QUC<br>Dimensions 24 in. H X 20 in. W   |
|      |          | T2       |                      | Type 12 enclosure with 2-QUC<br>installed and wired – Dimensior  |
|      |          | T3       |                      | Type 12 enclosure with 3-QUC<br>installed and wired – Dimensior  |
|      |          | Encl     | osure Type           | - indoor/outdoor applications - Type   |
|      |          | Note:    |                      | equipped with a strip heater to prevent cc<br>e required. Please consult with engineerir   |
|      |          | ZO       |                      | Type 4X enclosure with 1-MUC   |
|      |          |          |                      | Type 4X enclosure with 1-14loc   |
|      |          | Z1       |                      | Type 4X enclosure with 1-QUC   |
|      |          | Z1<br>Z2 |                      | Type 4X enclosure with 1-QUC<br>Dimensions 24 in. H X 20 in. W<br>Type 4X enclosure with 2-QUC   |
|      |          |          |                      | Type 4X enclosure with 1-QUC<br>Dimensions 24 in. H X 20 in. W<br>Type 4X enclosure with 2-QUC<br>installed and wired – Dimension<br>Type 4X enclosure with 3-QUC  |
|      |          | Z2       | Communica            | Type 4X enclosure with 1-QUC<br>Dimensions 24 in. H X 20 in. W<br>Type 4X enclosure with 2-QUC<br>installed and wired – Dimension<br>Type 4X enclosure with 3-QUC<br>installed and wired – Dimension   |
|      |          | Z2       | <b>Communic</b><br>A | Type 4X enclosure with 1-QUC<br>Dimensions 24 in. H X 20 in. W<br>Type 4X enclosure with 2-QUC<br>installed and wired – Dimension<br>Type 4X enclosure with 3-QUC<br>installed and wired – Dimension<br>ations Interface – price is on a per Q   |
|      |          | Z2       |                      | Type 4X enclosure with 1-QUC<br>Dimensions 24 in. H X 20 in. W<br>Type 4X enclosure with 2-QUC<br>installed and wired – Dimensio<br>Type 4X enclosure with 3-QUC<br>installed and wired – Dimensio<br>ations Interface – price is on a per Q<br>2 – BB85 pre-wired to termina  |
|      |          | Z2       | A                    | Type 4X enclosure with 1-QUC<br>Dimensions 24 in. H X 20 in. W<br>Type 4X enclosure with 2-QUC<br>installed and wired – Dimension<br>Type 4X enclosure with 3-QUC<br>installed and wired – Dimension<br>ations Interface – price is on a per Q<br>2 – BB85 pre-wired to termina<br>2 – DDC21 pre-wired to termina<br>QUCM only   |
|      |          | Z2       | A<br>B               | Type 4X enclosure with 1-QUC<br>Dimensions 24 in. H X 20 in. W<br>Type 4X enclosure with 2-QUC<br>installed and wired – Dimension<br>Type 4X enclosure with 3-QUC<br>installed and wired – Dimension<br>ations Interface – price is on a per Q<br>2 – BB85 pre-wired to termina<br>2 – DDC2I pre-wired to termina<br>QUCM only<br>1 – Caterpillar CCM module pr              |
| Exam | ple: par | Z2<br>Z3 | A<br>B<br>C<br>D     | Type 4X enclosure with 1-QUC<br>Dimensions 24 in. H X 20 in. W<br>Type 4X enclosure with 2-QUC<br>installed and wired – Dimension<br>Type 4X enclosure with 3-QUC<br>installed and wired – Dimension<br>ations Interface – price is on a per Q<br>2 – BB85 pre-wired to termina<br>2 – DDC2I pre-wired to termina<br>QUCM only<br>1 – Caterpillar CCM module pr<br>QUCM only |

Ordering information:

|       |             |           | Factory     | Assembled:       | Type 12 and 4                              |
|-------|-------------|-----------|-------------|------------------|--|
| Model |             | Order Co  | de          | Description      | I  |
| 9788  |             |           |             |                  | time is 5 weeks<br>available upon requ     |
|       | Device      |           |             | Device Type      | e (device is incluc                        |
|       | EPE5        |           |             | NR&D EPE5        | -T communications                          |
|       | SPE4        |           |             | NR&D SPE4        | -3D communicatio                           |
|       | MEB         |           |             | NR&D MEB-        | RT communication                           |
|       |             | Enclosure | e Type – in | door application | ons – Type 12                              |
|       |             | T1        |             |                  | osure with 1 gatew<br>pre-wired to termir  |
|       |             | Enclosure | e Type – in | door/outdoor     | applications – Ty                          |
|       |             |           |             |                  | o heater to prevent<br>onsult with enginee |
|       |             | Z1        |             |                  | osure with 1 gatew<br>pre-wired to termin  |
| Exam  | ple: part l | Number 9  | 9788EPE     | 5T1              |  |
| 9788  | EPE5        | T1        |             |                  |  |

PowerLogic Factory Assembled Equipment

#### nd 4X NR&D Communication Gateway Enclosures

L listed (QUCM-OE(s) and MUCM included in pricing) 120 VAC 1-pole circuit breaker and 50 W – 24 V DC supply

or this offering pad-lockable latch

quest (provide nameplate schedule with order)

per device basis (device quantity X price)

ations gateway (device part # QUCM-OE)

ns gateway (device part # MUCM-103 and EGX100SD)

CM and EGX100 installed and wired – Dimensions 16 in. H X 16 in. W X 8 in. D

CM and GFCI receptacle installed and wired – self-powered single slot –

V X 10 in. D

CM's, GFCI receptacle, and (4-copper and 1-fiber) Ethernet switch (N-TRON 105FX-SC) ons 24 in. H X 20 in. W X 10 in. D

CM's, GFCI receptacle, and (4-copper and 1-fiber) Ethernet switch (N-TRON 105FX-SC) ons 30 in. H X 24 in. W X 10 in. D

#### e 4X

ondensation. If further environmental controls are required such as cooling, then a custom ng for a quote.

CM and EGX100 installed and wired – Dimensions 20 in. H X 20 in. W X 8 in. D

CM and GFCI receptacle installed and wired – self-powered single slot – N X 10 in. D

CM's, GFCI receptacle, and (4-copper and 1-fiber) Ethernet switch (N-TRON 105FX-SC) ons 24 in. H X 20 in. W X 10 in. D

CM's,GFCI receptacle, and (4-copper and 1-fiber) Ethernet switch (N-TRON 105FX-SC) ons 30 in. H X 24 in. W X 10 in. D

#### QUCM basis

al blocks 10TBs total per device; does not provide isolation; QUCM only

hal blocks 10TBs total per device; provides optical isolation for QUCM from field wiring;

pre-wired to terminal blocks 5 TBs total; applies to enclosure Type's T1 and Z1 only;

vired to terminal blocks 10 TBs total; both ports are opically isolated; MUCM only

#### X NR&D Communication Gateway Enclosures

quest (provide nameplate schedule with order)

#### uded with enclosure)

ns gateway

ions gateway

ns gateway

way installed and wired – self-powered single slot – Dimensions 24 in. H X 20 in. W X 10 in. ninal blocks – 5 TBs per port

#### ype 4X

t condensation. If further environmental controls are required such as cooling, then a custom ering for a quote.

way installed and wired – self-powered single slot – Dimensions 24 in. H X 20 in. W X 10 in. inal blocks – 5 TBs per port

### Ethernet Communications Factory Assembled Enclosures

Type 12

#### Description:

The Ethernet communications enclosure is an ideal solution for communications integration and data consolidation for high-speed access to critical information. These pad-lockable enclosures are UL listed and well suited for providing managed and unmanaged Ethernet connectivity to downstream-connected devices.

#### Features:

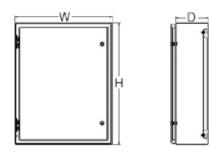
- Assemblies include devices wired to terminal blocks and one-pole circuit breaker for 120 VAC control power.
- Digital Input/Output (I/O) and/or analog Input/Output (I/O) options are not available.
- Supports indoor (Type 12) applications.
- Wall mountable and easy to install using concealed holes in the back of the enclosure.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish.
- Custom engraved nameplates are available for all units.



## Communications

Ordering information:

|       |              |             | Factory Assembled: Type 1   |
|-------|--------------|-------------|---|
| Model |              | Order Code  | Description   |
| 9788  |              |             | Industrial Type 12 Ethernet con<br>Each unit is equipped with a 1-<br>Typical lead time is 4-to-5 weel<br>Enclosures are equipped with p<br>Nameplates available upon req |
|       |              |             | Ethernet Communication Er   |
|       | ES105FX      |             | 1 – 5 Port unmanaged industria<br>installed and wired in a Type 12  |
|       | ES105TXPOE   |             | 1 – 5 Port unmanaged industria<br>in a Type 12 indoor rated 14 in.  |
|       | ES108TX      |             | 1 – 8 Port unmanaged industria<br>14 in. H X 12 in. W X 8 in. D en  |
|       | ES509FX      |             | 1 – 9 Port unmanaged industria<br>installed and wired in a Type 12  |
|       | ES516TX      |             | 1 – 16 Port unmanaged industr<br>14 in. H X 12 in. W X 8 in. D en   |
|       | ES517FX      |             | 1 – 17 Port unmanaged industr<br>Uplink); installed and wired in a  |
|       | ES524TX      |             | 1 – 24 Port unmanaged industr<br>20 in. H X 20 in. W X 8 in. D en   |
|       | ES526FX2     |             | 1 – 26 Port unmanaged industr<br>Uplink); installed and wired in a  |
|       | ES708FX2     |             | 1 – 8 Port fully managed indust<br>Uplink); installed and wired in a  |
| Exam  | ole: part Nu | mber 9788ES | 105FX   |
| 9788  | ES105FX      |             |   |
|       |              |             |   |



Enclosure Dimensions - see ordering information.

#### 12 Communication Gateway Enclosures

mms enclosure UL listed (switch included in pricing)

I-pole circuit breaker for 120 VAC control power and DC power supply

eks for this offering pad-lockable latch

, quest (provide nameplate schedule with order)

#### inclosure Options – price is on a per enclosure basis

ial Ethernet switch with fiber (4 10/100BaseTX, 1 100BaseFX Multimode, ST Style fiber Uplink); 2 indoor rated 14 in. H X 12 in. W X 8 in. D enclosure

ial PoE Ethernet switch (4 10/100BaseTX PoE, 1 10/100BaseTX Uplink); installed and wired n. H X 12 in. W X 8 in. D enclosure

ial Ethernet switch (8 10/100BaseTX); installed and wired in a Type 12 indoor rated nclosure

ial Ethernet switch with fiber (8 10/100BaseTX, 1 100BaseFX Multimode, ST Style fiber Uplink); 2 indoor rated 14 in. H X 12 in. W X 8 in. D enclosure

trial Ethernet switch (16 10/100BaseTX); installed and wired in a Type 12 indoor rated nclosure

trial Ethernet switch with fiber (16 10/100BaseTX, 1 100BaseFX Multimode, ST Style fiber a Type 12 indoor rated 14 in. H X 12 in. W X 8 in. D enclosure

trial Ethernet switch (24 10/100BaseTX); installed and wired in a Type 12 indoor rated nclosure

trial Ethernet switch with fiber (24 10/100BaseTX, 2 100BaseFX Multimode, ST Style fiber a Type 12 indoor rated 20 in. H X 20 in. W X 8 in. D enclosure

strial Ethernet switch with fiber (6 10/100BaseTX, 2 100BaseFX Multimode, ST Style fiber a Type 12 indoor rated 14 in. H X 12 in. W X 8 in. D enclosure

### Touchscreen and Kiosk Factory Assembled Enclosures

Type 12 and 1

#### **Description:**

The touchscreen enclosure is an ideal solution for communications integration and data consolidation for high-speed access to critical information. These pad-lockable enclosures are UL listed and well suited for providing HMI, client machine, and full PC connectivity to both upstream-connected and downstream-connected devices.

#### Features:

- Assemblies include devices wired to terminal blocks and one-pole circuit breaker for 120 VAC control power.
- Options are available for uninterruptable power supply (UPS) backup power.
- Digital Input/Output (I/O) and/or analog Input/Output (I/O) options are not available.
- Options are available for true HMI applications, client application (WEB browser), and full PC applications.
- Supports indoor (Type 12 and 1) applications.
- Wall mountable and easy to install using concealed holes in the back of the enclosure.
- Carbon steel construction with industry standard ANSI 61 gray powder-coat finish.
- Custom engraved nameplates are available for all units.





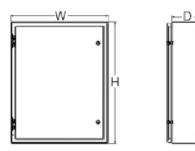
### Communications

Ordering information:

|       |              |               | Factory Assembled: Typ  |
|-------|--------------|---------------|---|
| Model |              | Order Code    | Description   |
| 9788  |              |               | Industrial Type 12 and 1 touchs<br>Each unit is equipped with a 1-<br>Typical lead time is 4-to-5 weel<br>Enclosures are equipped with p<br>Nameplates available upon req |
|       |              |               | Touchscreen Enclosure Opt   |
|       | HMI1         |               | HMI Ethernet (True HMI only - r<br>installed and wired in a Type 12   |
|       | HMI1UPS      |               | HMI Ethernet (True HMI only - r<br>installed and wired in a Type 12   |
|       | HMI2         |               | HMI with Client Ethernet (True H<br>Processor, Windows XPE (emb<br>installed and wired in a Type 12   |
|       | HMI2UPS      |               | HMI with Client Ethernet (True H<br>Processor, Windows XPE (emb<br>with 24VDC UPS; installed and  |
|       | HMI3         |               | PC Edition Ethernet Magelis (H<br>(full PC capabilities) Pre Installer<br>24 in. W X 10 in. D enclosure.  |
|       | HMI3UPS      |               | PC Edition Ethernet Magelis (H<br>bit (full PC capabilities) Pre Insta<br>indoor rated 24 in. H X 24 in. W  |
|       | VTECH17      |               | PC Edition Ethernet Vartech (V<br>Processor, Windows 7 64 bit (fi<br>in a Type 1 indoor rated 30 in. H  |
|       | VTECH17UPS   | 3             | PC Edition Ethernet Vartech (V<br>Processor, Windows 7 64 bit (fi<br>installed and wired in a Type 1 i  |
| Exam  | ple: part Nu | mber 9788HMI1 |   |
| 9788  | HMI1         |               |   |

Ordering Information:

|      |                  |                 | Factory Assem  |
|------|------------------|-----------------|--|
| Mode | I                | Order Code      | Description  |
| 9788 |                  |                 | Industrial Non-UL listed Interac<br>Typical lead time is 8 weeks for |
|      | Kiosk Displays – | Non-Interactive | )  |
|      | KSK32WNT         |                 | 32 in. Non-Interactive Wall Mor                                      |
|      | KSK42WNT         |                 | 42 in. Non-Interactive Wall Mor                                      |
|      | Kiosk Displays – | Interactive     |  |
|      | KSK32WNTTCH      |                 | 32 in. Interactive Wall Mount K                                      |
|      | KSK42WNTTCH      |                 | 42 in. Interactive Wall Mount K                                      |
|      | KSK32FSDTCH      |                 | 32 in. Interactive Freestanding                                      |
|      | KSK42FSDTCH      |                 | 42 in. Interactive Freestanding                                      |
|      | KSK42PDLTCH      |                 | 42 in. Interactive Pedestal Free                                     |
| Exam | ple: part Numb   | er 9788KSK3     | 32WNT  |
| 9788 | KSK32WNT         |                 |  |



Enclosure Dimensions - see ordering information.

#### pe 12 and 1 Touchscreen Enclosures

screen enclosure UL listed (HMI included in pricing)

I-pole circuit breaker for 120 VAC control power and a DC power supply eks for this offering

pad-lockable latch

quest (provide nameplate schedule with order)

#### tions - price is on a per enclosure basis

no Client) Magelis (XBTGT7340) 15 in. Color Touchscreen; 2 indoor rated 24 in. H X 24 in. W X 10 in. D enclosure

no Client) Magelis (XBTGT7340) 15 in. Color Touchscreen with 24VDC UPS; 2 indoor rated 24 in. H X 24 in. W X 10 in. D enclosure

HMI & Client) Magelis (HMIGTW7353) Graphic Terminal 15 in. XGA Touchscreen, 1000MHZ bedded XP - Client only) W/Vijeo Designer Run Time Pre Installed, 4GB Compact Flash Card; 2 indoor rated 24 in. H X 24 in. W X 10 in. D enclosure

HMI & Client) Magelis (HMIGTW7353) Graphic Terminal 15 in. XGA Touchscreen, 1000MHZ bedded XP - Client only) W/Vijeo Designer Run Time Pre Installed, 4GB Compact Flash Card d wired in a Type 12 indoor rated 24 in. H X 24 in. W X 10 in. D enclosure.

<code>HMIPPH7D0701</code>) PC 15 in. XGA <code>Touchscreen</code>, 2.26GHZ Processor, Windows 7 Ultimate 64 bit ed, 250GB Hard Drive, and 2GB RAM; installed and wired in a Type 12 indoor rated 24 in. H X

HMIPPH7D0701) PC 15 in. XGA Touchscreen, 2.26GHZ Processor, Windows 7 Ultimate 64 talled, 250GB Hard Drive, and 2GB RAM with 24VDC UPS; installed and wired in a Type 12 *N* X 10 in. D enclosure.

/TPC170P-04P-3-RS-320-4-JC) 17 in. SXGA Touchscreen, 2.16 GHz Intel Dual Core T3400 full PC capabilities) Pre Installed, DVD Drive, 320GB HDD, and 4GB RAM; installed and wired H X 30 in. W X 12 in. D enclosure.

/TPC170P-04P-3-RS-320-4-JC) 17 in. SXGA Touchscreen, 2.16 GHz Intel Dual Core T3400 full PC capabilities) Pre Installed, DVD Drive, 320GB HDD, and 4GB RAM with 24VDC UPS; indoor rated 30 in. H X 30 in. W X 12 in. D enclosure.

#### bled: Type 1 Kiosk Displays

ctive and Non-Interactive displays or this offering

ount Kiosk (Not Touch)

ount Kiosk (Not Touch)

Kiosk (Touch)

Kiosk (Touch)

g Kiosk (Touch)

g Kiosk (Touch)

estanding Kiosk (Touch)

## **Custom Enclosures – Controls**

### **PowerLogic Custom Factory Assembled Equipment**

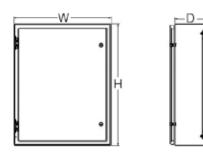
Type 1, 12, 3R, 4, and 4X

### **Description**:

Custom enclosures and rack assemblies offer turnkey integrated control solutions in an industrial rated UL listed enclosure. With more than a decade of design experience in energy and power management, automatic control, integrated supervisory control, and data acquisition (SCADA), we offer design services and designed-to-order control panels and racks to meet your system specifications and requirements.

#### **Available Design Solutions:**

- Switchgear transfer control panels.
- Generator control panels.
- Load shed control panels.
- Sequence of events recording (SER) panels.
- Control system mimic panels.
- Lighting control interface panels.
- Programmable logic controller (PLC) control panels (hot standby, relay control, data concentration, etc.).
- Emergency power supply systems (EPSS) control panels.
- Water, air, gas, electrical, and steam (WAGES) monitoring panels.
- Input status monitoring and alarming panels.
- Remote annunciator control panels.
- Remote operator control panels.
- Serial, Ethernet, and cellular wireless systems (point-to-point and mesh).
- Server rack and network equipment (servers, switches, UPSs) for energy management systems.
- Industrialized PCs, touchscreens (Magelis), and human machine interfaces (HMIs) with custom system graphics.
- Designed to fit any environment indoor (Type 1 and 12) and outdoor (Type 3R, 4, and 4X) applications.



Enclosure Dimensions - see ordering information.











## **Draw-Out Retrofit Cradles**

### PowerLogic PM800 Series Factory Assembled Draw-Out Retrofit Cradles

#### Description:

The PM800 Series draw-out retrofit cradles allow easy installation of PM810, PM820, PM850, and PM870 power meters with integrated display into any switchboard draw-out case. The power meter cradles are ideally suited for older facilities because most installations can be performed without de-energizing the circuit or re-wiring. Utilizing factory tested, pre-wired retrofit cradles allows advanced metering technology upgrades and eliminates risk of mis-wiring or handling old asbestos wiring. Meter control power is required and 18 in. pigtail is provided for L, N, and G connection. (Not UL listed.)

#### Features:

- Retrofits into existing large or small switchboard/panel meter cases.
- Equipped with plastic cover and universal lead seal latch.
- Custom engraved nameplates are available for all units.
- Assemblies include meter wired to cradle terminals.
- Draw-out units do not come equipped with any digital Input/Output (I/O) and/or analog Input/Output (I/O) options other than what is included on the meter by default.



### **Draw-Out Retrofit Cradles**

Ordering information:

| Model  |            | Order Code     | Description  |  |  |
|--------|------------|----------------|--|--|--|
| 9761DO |            |                | Typical lead time is 5 weeks   |  |  |
|        |            |                | All cradles and sssemblies are non-UL  |  |  |
| ſ      | Meter Type |                | Device Type (device is included with enclosure)  |  |  |
|        | 0820       |                | PM820 power meter with integrated display, THD, alarming, 80 kB logging, and comm  |  |  |
|        | 0850       |                | PM850 power meter with integrated display, THD, alarming, 800 kB logging, WFC, and comm  |  |  |
| -      | 0870       |                | PM870 power meter with integrated display, THD, alarming, 800 kB logging, Configurable WFC, and comm   |  |  |
|        | Г          | -              | r Form Factor and PT and CT Configuration – must come directly from existing unit and/or system  |  |  |
|        |            |                | FORM 5 – meter (2-ELEMENT)   |  |  |
|        | ŀ          | A5             | 3-Wire Delta with 0 PT and 2 CTs   |  |  |
|        |            | B5             | 3-Wire Delta with 2 PTs and 2 CTs  |  |  |
|        | H          |                | FORM 6 - meter (2.5-ELEMENT)   |  |  |
|        |            | C6             | 3-Wire Delta with 2 PTs and 3 CTs  |  |  |
|        |            | D6             | 4-Wire Wye with 2 PTs and 3 CTs  |  |  |
|        | ŀ          |                | FORM 9 – meter (3-ELEMENT)   |  |  |
|        | -          | E9             | 3-Wire Delta with 0 PTs and 3 CTs  |  |  |
|        | ŀ          | F9<br>Original | 4-Wire Wye with 3 PTs and 3 CTs<br>Meter and Case Type – original meter part # and dimensions must match – else select Option C01  |  |  |
| Genera | l Electr   | -              | DS-38 medium vase with cradle-mounted cover – approximate dimensions 15 in. H X 7 in. W  |  |  |
| Genera | LICCU      | G02            | DS-39 extra large vase with cradle-mounted cover – approximate dimensions 10 in. H X 7 in. W   |  |  |
|        |            | G02            | DS-43 medium case – approximate dimensions 15 in. H X 7 in. W  |  |  |
|        |            | G04            | DS-44 extra large case – approximate dimensions 20 in. H X 7 in. W   |  |  |
|        |            | G05            | DS-53 small case with hard wired connections – approximate dimensions 9 in. H X 7 in. W  |  |  |
|        |            | G06            | DS-54 large case with hard wired connections – approximate dimensions 5 m. H X 7 m. W  |  |  |
|        |            | G07            | DS-55 small case with hard wired connections – approximate dimensions 9 in. H X 7 in. W  |  |  |
|        |            | G08            | DS-63, DSM-63, and DSW-63 small case – approximate dimensions 10 in. H X 7 in. W   |  |  |
|        |            | G08<br>G09     | DS-64 large case – approximate dimensions 17 in. H X 7 in. W   |  |  |
|        |            | G09<br>G10     | DS-65, DSM-65, and DSW-65 small case – approximate dimensions 10 in. H X 7 in. W   |  |  |
|        |            | G10            | DS-66, DSM-66, and DSW-65 small case – approximate dimensions 10 in. H X 7 in. W   |  |  |
|        |            | G12            | DS-67 large 2 meter case – approximate dimensions 17 in. H X 7 in. W 2 meter unit  |  |  |
|        |            | G12<br>G13     | DS-69 large 2 meter case – approximate dimensions 17 in. H X 7 in. W 2 meter unit  |  |  |
|        |            | G13<br>G14     | KV small case – approximate dimensions 10 in. H X 7 in. W  |  |  |
|        |            | G14<br>G15     | KV2 small case – approximate dimensions 10 in. H X 7 in. W   |  |  |
|        |            | G15<br>G16     |  |  |  |
|        |            | G10<br>G17     | KV2c small case – approximate dimensions 10 in. H X 7 in. W<br>KV2cn small case – approximate dimensions 10 in. H X 7 in. W  |  |  |
|        |            | G17<br>G18     | PHASE 3 small case – approximate dimensions 10 in. H X 7 in. W   |  |  |
| Westin | nghous     |                | D (2, 4, or 5) B-8F(M) small FT-21 case – approximate dimensions 8 in. H X 6 in. W   |  |  |
| wesu   | ignous     | W19<br>W20     | D (2, 4, or 5) B-3F(M) large FT-32 case with switches on top and bottom – approximate dimensions 16 in. H X 6 in. W  |  |  |
|        |            | W20            | D (2, 4, or 5) B-2F(M) small FT-21 case – approximate dimensions 8 in. H X 6 in. W   |  |  |
|        |            | W21            | FT-31 large case with switches on bottom only – approximate dimensions 16 in. H X 6 in. W  |  |  |
| San    | gamo       | S23            | 2-ELEMENT small case – approximate dimensions 10 in. H X 7 in. W   |  |  |
|        | -          | ger) 124       | Quantum <sup>™</sup> Q1000 basler style large case – approximate dimensions 15 in. H X 7 in. W   |  |  |
|        | crum       | F25            | SQ400 basler style large case – approximate dimensions 15 in. H X 7 in. W  |  |  |
|        | sdate      | T26            | MARKV – small version basler style small case – approximate dimensions 9 in. H X 7 in. W   |  |  |
| ITan   | June       | T27            | MARKV – large version basier style large case – approximate dimensions 5 in. H X 7 in. W   |  |  |
| Δm     | etek       | A28            | JEMSTAR basler style small case – approximate dimensions 9 in. H X 7 in. W   |  |  |
|        |            | A29            | JEM10 basler style small case – approximate dimensions 9 in. H X 7 in. W   |  |  |
|        |            | A30            | JEM2 basier style large case – approximate dimensions 15 in. H X 7 in. W   |  |  |
| Ele    | stor       | E31            | ALPHA small case – approximate dimensions 8 in. H X 6 in. W  |  |  |
|        | PSI        | P32            | QUAD4 – small version small case – approximate dimensions 8 in. H X 6 in. W  |  |  |
|        |            | P33            | QUAD4 – small version small case – approximate dimensions of in. TX of in. W<br>QUAD4 – large version large case with switches on top and bottom – approximate dimensions 16 in. H X 6 in. W |  |  |
|        |            |                | original meter and case type not listed above  |  |  |
|        |            | C34            | Original make and part number of case along with existing case dimensions and terminal configuration is required   |  |  |
|        |            |                | 761D00870B5W19   |  |  |

PowerLogic Factory Assembled Equipment

| enc | losure | ) |
|-----|--------|---|
|     |        |   |

### **Draw-Out Retrofit Cradles**

### PowerLogic ION6200 and ION7300 Series Factory Assembled Draw-Out Retrofit Cradles

#### **Description:**

The ION6200 and ION7300 Series draw-out retrofit cradles allow easy installation of ION6200, ION7330, and ION7350 power meters with integrated display into any switchboard draw-out case. The power meter cradles are ideally suited for older facilities since most installations can be performed without de-energizing the circuit or re-wiring. Utilizing factory tested, pre-wired retrofit cradles allows advanced metering technology upgrades and eliminates risk of mis-wiring or handling old asbestos wiring. Meter control power is required and 18 in. pigtail is provided for L, N, and G connection. (Not UL listed.)

#### Features:

- Retrofits into existing large or small switchboard/panel meter cases.
- Equipped with plastic cover and universal lead seal latch.
- Custom engraved nameplates are available for all units.
- Assemblies include meter wired to cradle terminals.
- Draw-out units do not come equipped with any digital Input/Output (I/O) and/or analog Input/Output (I/O) options other than what is included on the meter by default.



### **Draw-out Retrofit Cradles**

Ordering information:

| Nodel   |               | Order Code                          | Description   |  |  |
|---------|---------------|-------------------------------------|---|--|--|
| 9761DO  |               |                                     | Typical lead time is 5 weeks  |  |  |
|         | Matar         | Turne                               | All cradles and assemblies are Non-UL   |  |  |
|         | Meter<br>6200 | туре                                | Device Type (device is included with enclosure)   |  |  |
| -       | 7330          |                                     | ION6200 integrated display meter and comm   |  |  |
|         | 7350          |                                     | ION7330 integrated display meter, 300 kB logging, and comm  |  |  |
|         | 7330          | Original Mete                       | ION7350 integrated display meter, 300 kB logging, WFC, and comm<br>er Form Factor and PT and CT Configuration – must come directly from existing unit and/or system |  |  |
|         |               | -                                   | - FORM 5 – METER (2-ELEMENT)  |  |  |
|         |               |                                     | e Delta with OPT and 2CTs   |  |  |
|         |               |                                     | e Delta with 2PTs and 2CTs  |  |  |
|         |               |                                     | - FORM 6 - METER (2.5-ELEMENT)  |  |  |
|         |               |                                     | Delta with 2PTs and 3CTs  |  |  |
|         |               | D6 4 – Wire Wye with 2 PTs and 3CTs |   |  |  |
|         |               |                                     | - FORM 9 – METER (3-ELEMENT)  |  |  |
|         |               |                                     | e Delta with OPTs and 3CTs  |  |  |
|         |               |                                     | e Wye with 3PTs and 3CTs  |  |  |
|         |               |                                     | Il Meter and Case Type – original meter part # and dimensions must match – else select Option C01   |  |  |
| Genera  | al Elect      | -                                   | DS-38 medium case with cradle-mounted cover – approximate dimensions 15 in. H X 7 in. W   |  |  |
|         |               | G02                                 | DS-39 extra large case with cradle-mounted cover – approximate dimensions 20 in. H X 7 in. W  |  |  |
|         |               | G03                                 | DS-43 medium case – approximate dimensions 15 in. H X 7 in. W   |  |  |
|         |               | G04                                 | DS-44 extra large case – approximate dimensions 20 in. H X 7 in. W  |  |  |
|         |               | G05                                 | DS-53 small case with hard wired connections – approximate dimensions 9 in. H X 7 in. W   |  |  |
|         |               | G06                                 | DS-54 large case with hard wired connections – approximate dimensions 16 in. H X 7 in. W  |  |  |
|         |               | G07                                 | DS-55 small case with hard wired connections – approximate dimensions 9 in. H X 7 in. W   |  |  |
|         |               | G08                                 | DS-63, DSM-63, and DSW-63 small case – approximate dimensions 10 in. H X 7 in. W  |  |  |
|         |               | G09                                 | DS-64 large case – approximate dimensions 17 in. H X 7 in. W  |  |  |
|         |               | G10                                 | DS-65, DSM-65, and DSW-65 small case – approximate dimensions 10 in. H X 7 in. W  |  |  |
|         |               | G11                                 | DS-66, DSM-66, and DSW66 small case – approximate dimensions 10 in. H X 7 in. W   |  |  |
|         |               | G12                                 | DS-67 large 2 meter case – approximate dimensions 17 in. H X 7 in. W – 2 meter unit   |  |  |
|         |               | G13                                 | DS-69 large 2 meter case – approximate dimensions 17 in. H X 7 in. W – 2 meter unit   |  |  |
|         |               | G14                                 | KV small case – approximate dimensions 10 in. H X 7 in. W   |  |  |
|         |               | G15                                 | KV2 small case – approximate dimensions 10 in. H X 7 in. W  |  |  |
|         |               | G16                                 | KV2c small case – approximate dimensions 10 in. H X 7 in. W   |  |  |
|         |               | G17                                 | KV2cn small case – approximate dimensions 10 in. H X 7 in. W  |  |  |
|         |               | G18                                 | PHASE 3 small case – approximate dimensions 10 in. H X 7 in. W  |  |  |
| Westi   | nghous        | e W19                               | D (2, 4, or 5) B-8F(M) small FT-21 case – approximate dimensions 8 in. H X 6 in. W  |  |  |
|         |               | W20                                 | D (2, 4, or 5) B-3F(M) large FT-32 case with switches on Top and Bottom – approximate dimensions 16 in. H X 6 in. W   |  |  |
|         |               | W21                                 | D (2, 4, or 5) B-2F(M) small FT-21 case – approximate dimensions 8 in. H X 6 in. W  |  |  |
|         |               | W22                                 | FT-31 large case with switches on bottom only - approximate dimensions 16 in. H X 6 in. W   |  |  |
| Sar     | ngamo         | S23                                 | 2-ELEMENT small case – approximate dimensions 10 in. H X 7 in. W  |  |  |
| on (Scl | hlumbe        | rger) 124                           | QUANTUM Q1000 basler style large case – approximate dimensions 15 in. H X 7 in. W   |  |  |
| Fu      | lcrum         | F25                                 | SQ400 basler style large case – approximate dimensions 15 in. H X 7 in. W   |  |  |
| Trai    | nsdate        | T26                                 | MARKV – small version basler style small case – approximate dimensions 9 in. H X 7 in. W  |  |  |
|         |               | T27                                 | MARKV – large version basler style large case – approximate dimensions 15 in. H X 7 in. W   |  |  |
| An      | netek         | A28                                 | JEMSTAR basler style small case - approximate dimensions 9 in. H X 7 in. W  |  |  |
|         |               | A29                                 | JEM10 basler style small case – approximate dimensions 9 in. H X 7 in. W  |  |  |
|         |               | A30                                 | JEM2 basler style large case – approximate dimensions 15 in. H X 7 in. W  |  |  |
| E       | lstor         | E31                                 | ALPHA small case – approximate dimensions 8 in. H X 6 in. W   |  |  |
|         | PSI           | P32                                 | QUAD4 – small verison small case – approximate dimensions 8 in. H X 6 in. W   |  |  |
|         |               | P33                                 | QUAD4 – large version large case with switches on top and bottom – approximate dimensions 16 in. H X 6 in. W  |  |  |
|         |               | Other -                             | original meter and case type not listed above   |  |  |
|         |               | C34                                 | Original make and part number of case along with existing case dimensions and terminal configuration is required  |  |  |
| kample: | part Ni       | umber 9761DO                        | 6200D6G10   |  |  |

PowerLogic Factory Assembled Equipment

#### Advantages:

- Designed to current NEC and UL standards
- Equipped with hazard and safety labels
- UL/CUL 508A listed
- Efficient panel layout and well marked terminals reduce wiring errors and needless troubleshooting
- · Complete with necessary documentation and mounting hardware for quick and easy installation

### Additional information and ordering:

For additional information and pricing, please contact your local Energy Solutions Sales Specialist or Energy Solutions Sales Support at 615-287-3535. Enclosure pricing and literature available for download on our website at www.powerlogic.com > Factory Enclosures.

To better serve you, please have the below information on hand when calling. Please refer to the sample ordering information attached for details on these options.

- Enclosure type (indoor or outdoor) and environment details (corrosive or non-corrosive)
- Power system voltage level and type [direct current (DC) or alternating current (AC)]
- Digital and analog Input and Output requirements
- Device type and quantity per enclosure
- Ethernet and serial communication requirements
- For draw-out retrofits, need existing cradle type (i.e. GE, Westinghouse, etc.)

### Factory Assembled Enclosures Type Guide:

- **Type 1** for indoor use to provide a degree of protection against contact with the enclosed equipment or locations where unusual service conditions do not exist.
- **Type 12** for indoor use to provide a degree of protection against dust, falling dirt, and dripping non-corrosive liquids.
- **Type 3R** for outdoor use to provide a degree of protection against falling rain and it is undamaged by the formation of ice.
- **Type 4** for indoor and outdoor use to provide a degree of protection against dust, rain, splashing water, hose directed water, and it is undamaged by the formation of ice. A strip heater is included to prevent condensation.
- **Type 4X** for indoor and outdoor use to provide a degree of protection against dust, rain, splashing water, hose directed water, corrosion, and it is undamaged by the formation of ice. A strip heater is included to prevent condensation.

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As standards, specifications, and designs develop over time, always ask for confirmation of the information given in this publication.



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Document Number 3000CT0801R01/13

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