### 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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### 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) PM800 Series power meter (1, 2, 4, 6, 8, 10, 12)		R R			24-25					
				Con	nmercial Bu	ilding Applic	1				
	HDM – ION6200 Series power meter (1 or 4) HDM – PM700 Series power meter (1, 4, 8, 16) 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) 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 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**

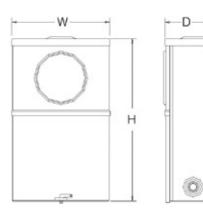
Type 3R

### **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 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 Bar type	e CTs	and n		
	Enclosı 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 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R neutral bar (if applicable) are located behind a protected swing door	25 in.
	Enclosı Bar type 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 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R leutral bar (if applicable) are located behind a protected swing door s 100, 200, 300, and 400:5 – ratios must be specified with order	25 in .25 in
	Enclosu Bar type Support F0 G0	e CTs ts CT i	and n 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 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R neutral 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	25 in .25 in
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	Enclosu Bar type Support F0 G0	e CTs ts CT i eter S	and n ratios 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 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R neutral bar (if applicable) are located behind a protected swing door a 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 – PTs are not included in enclosure price, CTs are only included for enclosure types F and G Three-phase	25 in .25 in
	Enclosu Bar type Support F0 G0	e CTs ts CT i eter S Volta	and n ratios 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 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R leutral 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	25 in .25 in
	Enclosu Bar type Support F0 G0	e CTs i ts CT i eter S 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 .25 in
	Enclosu Bar type Support F0 G0	e CTs ts CT i eter S 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 reutral 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 (65-120 VAC, 80-160 VDC) auxillary control power	25 in .25 in
	Enclosu Bar type Support F0 G0	e CTS is CT is constructed by the second sec	and neratios ystem 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 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R neutral 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 (65-120 VAC, 80-160 VDC) auxillary control power horting Block – price is on a per enclosure basis	25 in .25 in
	Enclosu Bar type Support F0 G0	e CTs is CT is consistent of the constant of the con	ystem age D 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 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R neutral 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 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 (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)	25 in .25 in
	Enclosu Bar type Support F0 G0	e CTs is CT	and n ratios ystem age D CT Sr A 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 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R reutral 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 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 (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)	25 in .25 in
	Enclosu Bar type Support F0 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 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R reutral 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 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 (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)	25 in .25 in
	Enclosu Bar type Support F0 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 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R eutral bar (if applicable) are located behind a protected swing door 5 100, 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 in 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) 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	25 in. .25 in.
	Enclosu Bar type Support F0 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 d Meter Quantity – Transocket Lever Bypass Enclosure – indoor/outdoor applications – Type 3R entral 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 in <b>Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G</b> 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 3 CTs (form 39S, 76S) 10-pole Test switch to accommodate 3 CTs and phase voltages (form 9S, 35S, 36S) <b>Digital and Analog I/O Wiring – price is on a per enclosure basis</b> No I/O wiring provided	25 in. .25 in.
	Enclosu Bar type Support F0 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. 225 in. 3.25 ii
	Enclosu Bar type Support F0 G0	e CTs is CT	vstem age D CT Sh A B C D D 1 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 leutral 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 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 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 basis (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, 36S) 6-pole CT shorting block to accommodate 3 CTs (form 9S, 35S, 36S) 8-pole CT shorting block to accommodate 3 CTs (form 39S, 76S) 10-pole Test switch to accommodate 3 CTs and phase voltages (form 9S, 35S, 36S) 0igital and Analog I/O Wiring – price is on a per enclosure basis No I/O w	25 in. 225 in. 3.25 ir
	Enclosu Bar type Support F0 G0	e CTs is CT	vstem age D CT Sh A B C D D 1 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 returnal bar (if applicable) are located behind a protected swing door i 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 11 <b>Type – PTs are not included in enclosure price, CTs are only included for enclosure types F and G</b> 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) auxiliary 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 3 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) 4 2 DIs, 2 form A DOs wired to terminal blocks (4 TBs total) (includes default I/O + DC supply); analog – none (applie 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 5600 only)	25 in. 225 in. 3.25 ii
	Enclosu Bar type Support F0 G0	e CTs is CT	vstem age D CT Sh A B C D D 1 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 reutral bar (if applicable) are located behind a protected swing door i 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 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11 Type 3R enclosure with 1 form 36S (13 terminal) meter installed and wired – Dimensions 34 in. H X 25 in. W X 11 Type 3R enclosure brow the there 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 No I/O wiring provided to accommodate 3 CTs (form 9S, 35S, 36S) 8-pole CT shorting block to accommodate 3 CTs and phase voltages (form 9S, 35S, 3	25 in. 225 in. 3.25 ir
	Enclosu Bar type Support F0 G0	e CTs is CT	vstem age D CT Sh A B C D D 1 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 225 in 3.25 i
	Enclosu Bar typ Support F0 G0 M. 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 225 in 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.

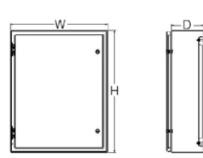




### **Main/Critical Circuit**

#### 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 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 st have the same meter syste
		0				(1) 3-pole fusible disconnect p universal power input configur
		7				Multiple Voltage Sources – 3-F 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 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 wired to terminal blocks (5-OL
						Note: For multi-meter panels, both incoming and outgoing t 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.

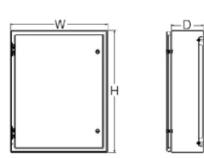




### **Main/Critical Circuit**

#### 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 Note: All units are equipped with a strip heater to prevent co 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 at have the same meter syste							
				0				(1) 3-pole fusible disconnect pr universal power input configura							
				7				Multiple Voltage Sources — 3- 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 (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**

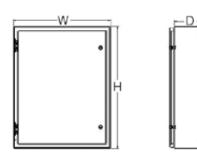
Type 12 and 4X

### **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 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, 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

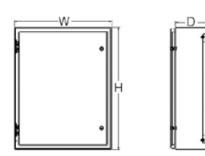
Type 12 and 4X

#### **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 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 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 R7 R8 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 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 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 (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.

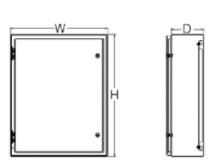




### **Secondary Mains**

#### 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 st have the same meter syste							
				0				(1) 3-pole fusible disconnect pr universal power input configura							
				7				Multiple Voltage Sources – 3-po 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; 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.

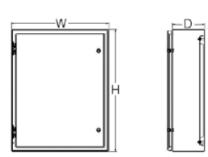






Ordering information:

								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 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 st have the same meter syste					
				0				(1) 3-pole fusible disconnect pr universal power input configura					
				7				Multiple Voltage Sources – 3-p 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 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 incoming and outgoing termina 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 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 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 at have the same meter syste
				0				(1) 3-pole fusible disconnect p universal power input configura
				7				Multiple Voltage Sources – 3-p 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 Includes default I/O + PM8M2
							Co	mmunications Wiring
							A	No communications terminal b
							в	Both RS-485 ports wired to TE TBs (5-IN, 5-OUT)
							С	1 Ethernet equipped meter; CA
								Note: For multi meter panels ea incoming and outgoing terminat 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)

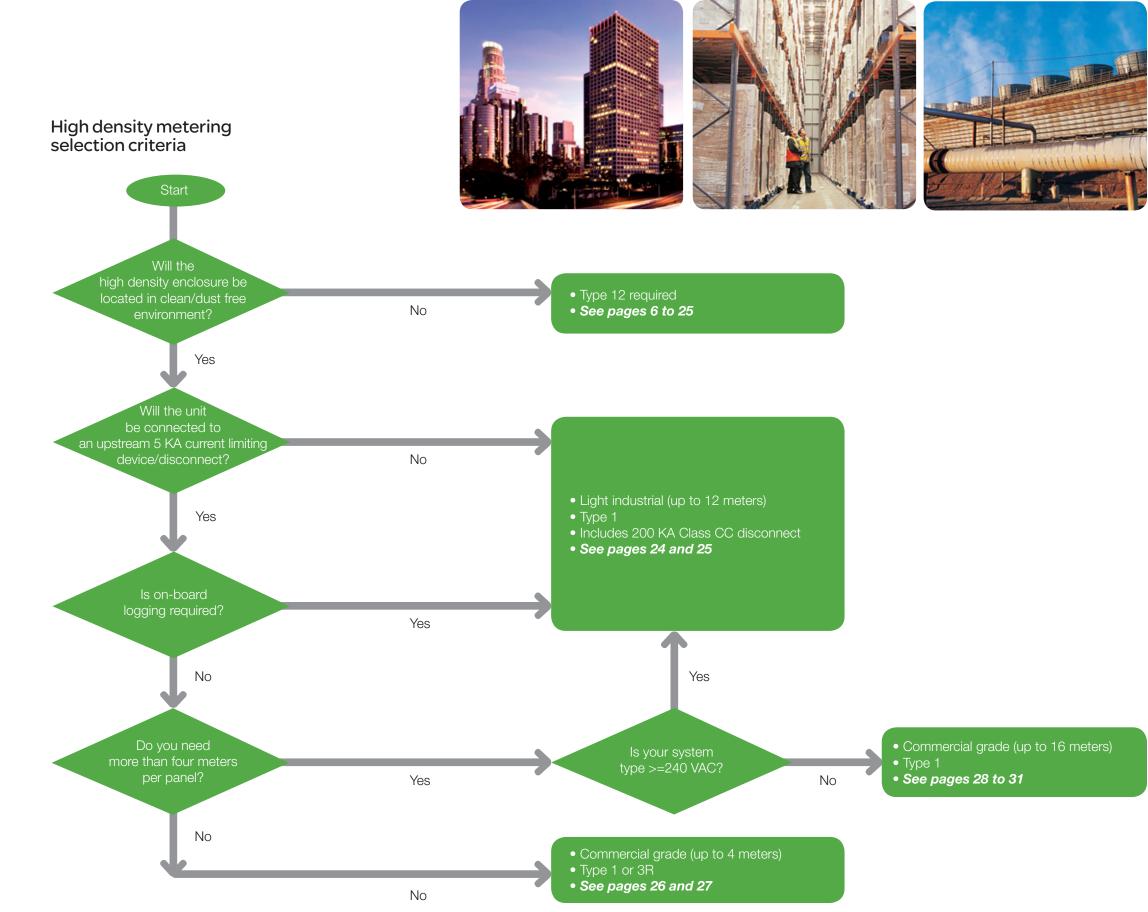
ach meter's comm. ports will be daisy chained together and wired to terminal blocks for both ation. Units that have Ethernet will wire exactly the same except the incoming 4-wire terminal meter's comm. port for that network.

### 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

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

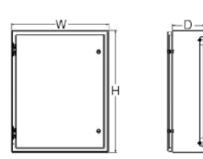
Type 1

### **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.

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### **High Density Metering**

#### Ordering information:

				Factory Assembled: Type 1 Light Industrial Meter Enclosures
Model		Orde	er Code	Description
9761C				Light industrial Type 1 enclosures Includes fusible disconnect, CT shorting block, and wired for serial comms This enclosure offer utilizes remote display meters only – (meter(s) included in pricing) Digital and analog I/O N/A for this offering Typical lead time is 4 weeks for this offering Enclosures are equipped with pad-lockable latch 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) 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

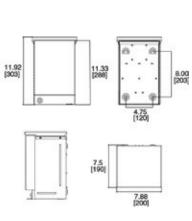
PM870 remote display meter

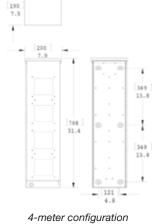
### PowerLogic High Density Metering (HDM) Enclosures

Type 1

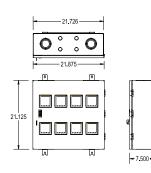
### **Description:**

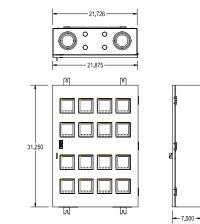
HDM cabinets are an ideal low installed cost solution for indoor commercial applications where a small footprint is required. These highly accurate enclosed meters are available in single, four-meter column width, eight-meter, and 16-meter configurations. These Type 1 enclosures are painted to match 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 Part # HDMPMHKIT	Wiring harness for installation of additional meters in 4-, 8-, 16-meter enclosures (includes connectors and shorting terminal blocks).
Cover plate 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.

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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 four-meter cabinet/two meters
	6200 PM210 PM750	Meter         6200         PM210         PM750         12         48         4T	Weter         6200         PM210         PM750         Voltage         12         48         4T         1         3	6200 PM210 PM750 Voltage 12 48 4T Phasin 1 3 En 1 4 9 1 1 3 1 4 1 3 1 1 4 1 3 1 1 4 1 1 3 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Meter 6200 PM210 PM750 Voltage 12 48 4T Phasing 1 3 Enclos 1 4 4 4 4 4 4 1 3 Enclos 1 4 4 4 4 4 4 4 4 4 4 4 4 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 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 PM750 Voltage 12 48 Phasing 1 3 Enclos 8 16 # 0 1-1 19 10 10 10 10 10 10 10 10 10 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.

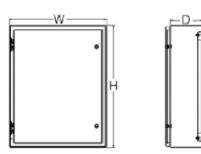




## **High Density Metering**

#### Ordering information:

Model		Orde	er Co	ode			Description
9761E							Typical lead time is 5 weeks 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 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 universal power input configura
					ст	Sho	
					<b>СТ</b> А	Sho	universal power input configura
						Sho	universal power input configura
					А	Sho	rting Block 4-pole CT shorting block to ac
					A B		universal power input configura rting Block 4-pole CT shorting block to ac 6-pole CT shorting block to ac
					A B		rting Block 4-pole CT shorting block to ac 6-pole CT shorting block to ac 8-pole CT shorting block to ac
Exam	ple: pa	urt Nu	umb		A B C	Dig 1	rting Block 4-pole CT shorting block to ac 6-pole CT shorting block to ac 8-pole CT shorting block to ac 10-00 CT shorting block to ac 10-00 CT shorting block to ac 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

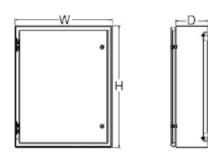
Type 3R

### **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 All enclosures equipped with Typical lead time is 4-to-5 w Enclosures are equipped with 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 without lever bypass
		A1		Type 3R ringless enclosure v lever bypass
		B1		Type 3R ringless enclosure v lever bypass
		CO		Type 3R ringless enclosure v 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

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with 1 form 12S meter installed – Dimensions 19 in. H X 13 in. W X 4.875 in. D with
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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 Each unit is equipped with a 1-pole Typical lead time is 4 weeks for this Enclosures are equipped with pad- 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 Dimensions 16 in. H X 16 in. W X 8
		Т3		Type 12 enclosure with 3-EGX's an 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 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 Dimensions 24 in. H X 20 in. W X 8
		Z3		Type 4X enclosure with 3-EGX's an 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.

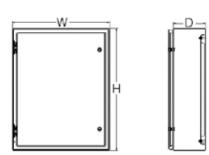




## **Communications**

Ordering information:

Model	Order Code	Description
9761E		Typical lead time is 5 weeks 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 juipped with a strip heater to prevent condensation. If further environmental controls are required such as cooling, then a custom 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 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 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

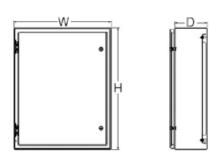
Type 12 and 4X

#### 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 Each unit is equipped with a 1 Typical lead time is 5 weeks fo Enclosures are equipped with 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 Dimensions 24 in. H X 20 in. W
		T2		Type 12 enclosure with 2-QUC installed and wired – Dimensior
		T3		Type 12 enclosure with 3-QUC installed and wired – Dimensior
		Encl	osure Type	- indoor/outdoor applications - Type
		Note:		equipped with a strip heater to prevent cc 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 Z2		Type 4X enclosure with 1-QUC Dimensions 24 in. H X 20 in. W Type 4X enclosure with 2-QUC
				Type 4X enclosure with 1-QUC Dimensions 24 in. H X 20 in. W Type 4X enclosure with 2-QUC installed and wired – Dimension Type 4X enclosure with 3-QUC
		Z2	Communica	Type 4X enclosure with 1-QUC Dimensions 24 in. H X 20 in. W Type 4X enclosure with 2-QUC installed and wired – Dimension Type 4X enclosure with 3-QUC installed and wired – Dimension
		Z2	<b>Communic</b> A	Type 4X enclosure with 1-QUC Dimensions 24 in. H X 20 in. W Type 4X enclosure with 2-QUC installed and wired – Dimension Type 4X enclosure with 3-QUC installed and wired – Dimension ations Interface – price is on a per Q
		Z2		Type 4X enclosure with 1-QUC Dimensions 24 in. H X 20 in. W Type 4X enclosure with 2-QUC installed and wired – Dimensio Type 4X enclosure with 3-QUC installed and wired – Dimensio ations Interface – price is on a per Q 2 – BB85 pre-wired to termina
		Z2	A	Type 4X enclosure with 1-QUC Dimensions 24 in. H X 20 in. W Type 4X enclosure with 2-QUC installed and wired – Dimension Type 4X enclosure with 3-QUC installed and wired – Dimension ations Interface – price is on a per Q 2 – BB85 pre-wired to termina 2 – DDC21 pre-wired to termina QUCM only
		Z2	A B	Type 4X enclosure with 1-QUC Dimensions 24 in. H X 20 in. W Type 4X enclosure with 2-QUC installed and wired – Dimension Type 4X enclosure with 3-QUC installed and wired – Dimension ations Interface – price is on a per Q 2 – BB85 pre-wired to termina 2 – DDC2I pre-wired to termina QUCM only 1 – Caterpillar CCM module pr
Exam	ple: par	Z2 Z3	A B C D	Type 4X enclosure with 1-QUC Dimensions 24 in. H X 20 in. W Type 4X enclosure with 2-QUC installed and wired – Dimension Type 4X enclosure with 3-QUC installed and wired – Dimension ations Interface – price is on a per Q 2 – BB85 pre-wired to termina 2 – DDC2I pre-wired to termina QUCM only 1 – Caterpillar CCM module pr QUCM only

Ordering information:

			Factory	Assembled:	Type 12 and 4
Model		Order Co	de	Description	I
9788					time is 5 weeks 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 pre-wired to termir
		Enclosure	e Type – in	door/outdoor	applications – Ty
					o heater to prevent onsult with enginee
		Z1			osure with 1 gatew 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:

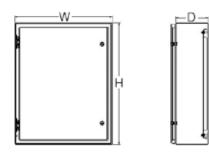
- Assemblies include devices wired to terminal blocks and one-pole circuit breaker for 120 VAC control power.
- Digital Input/Output (I/O) and/or analog Input/Output (I/O) options are not available.
- Supports indoor (Type 12) applications.
- Wall mountable and easy to install using concealed holes in 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 Each unit is equipped with a 1- Typical lead time is 4-to-5 weel Enclosures are equipped with p Nameplates available upon req
			Ethernet Communication Er
	ES105FX		1 – 5 Port unmanaged industria installed and wired in a Type 12
	ES105TXPOE		1 – 5 Port unmanaged industria in a Type 12 indoor rated 14 in.
	ES108TX		1 – 8 Port unmanaged industria 14 in. H X 12 in. W X 8 in. D en
	ES509FX		1 – 9 Port unmanaged industria installed and wired in a Type 12
	ES516TX		1 – 16 Port unmanaged industr 14 in. H X 12 in. W X 8 in. D en
	ES517FX		1 – 17 Port unmanaged industr Uplink); installed and wired in a
	ES524TX		1 – 24 Port unmanaged industr 20 in. H X 20 in. W X 8 in. D en
	ES526FX2		1 – 26 Port unmanaged industr Uplink); installed and wired in a
	ES708FX2		1 – 8 Port fully managed indust 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.





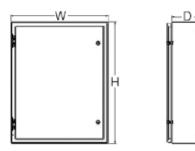
### Communications

Ordering information:

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

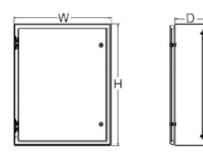
Type 1, 12, 3R, 4, and 4X

### **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 Original	4-Wire Wye with 3 PTs and 3 CTs 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 G09	DS-64 large case – approximate dimensions 17 in. H X 7 in. W		
		G09 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 G13	DS-69 large 2 meter case – approximate dimensions 17 in. H X 7 in. W 2 meter unit		
		G13 G14	KV small case – approximate dimensions 10 in. H X 7 in. W		
		G14 G15	KV2 small case – approximate dimensions 10 in. H X 7 in. W		
		G15 G16			
		G10 G17	KV2c small case – approximate dimensions 10 in. H X 7 in. W KV2cn small case – approximate dimensions 10 in. H X 7 in. W		
		G17 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 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 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 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 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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