

Flat Panel Monitors

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Flat Panel Monitor Selection Guide

Specifications		Model	FPM-3190G	FPM-3191G	FPM-3170G	FPM-3171G
LCD Display	Size (diagonal)		19"	19"	17"	17"
	Resolution		1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
	Colors		16.7 M	16.7 M	16.2 M	16.2 M
	Viewing Angle (H,V)		178, 178	178, 178	140, 130	140, 130
	Luminance (cd/m ²)		300	300	300	300
	Backlight Life (hrs)		50,000	50,000	40,000	40,000
	Contrast Ratio		1000:1	1000 : 1	500 : 1	500 : 1
Direct VGA Input			Yes	Yes	Yes	Yes
DVI Input			Yes	-	Yes	-
S-Video			Yes	-	Yes	-
Video Input			Yes	-	Yes	-
Touchscreen (Optional)			Resistive	Resistive	Resistive	Resistive
OSD (Onscreen Display)			Yes	Yes	Yes	Yes
Touchscreen Sensor			ELO	ELO	ELO	ELO
Inverter			TDK	TDK	TDK	TDK
Power Supply (Volt, AC)			100-240 V	100-240 V	100-240 V	100-240 V
Front Panel Ingress Protection			NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65
Operating Temperature			0 ~ 50° C (32 ~ 122° F)	0 ~ 50° C (32 ~ 122° F)	0 ~ 50° C (32 ~ 122° F)	0 ~ 50° C (32 ~ 122° F)
Storage Temperature			-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)
Certifications			BSMI, CCC, CE, FCC	BSMI, CCC, CE, FCC	BSMI, CCC, CE, FCC	BSMI, CCC, CE, FCC
Dimensions (W x H x D)			482 x 399 x 66 mm (18.9" x 15.7" x 2.6")	482 x 399 x 66 mm (18.9" x 15.7" x 2.6")	482 x 354 x 68 mm (18.9" x 13.9" x 2.7")	482 x 354 x 68 mm (18.9" x 13.9" x 2.7")
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Selection Guide

FPM-3150G	FPM-2150G	FPM-3120G	FPM-3060G
15"	15"	12.1"	6.5"
1024 x 768	1024 x 768	800 x 600	640 x 480
16.2 M	16.2 M	262 k	262 k
140, 125	140, 125	140, 120	140, 120
400	250	350	300
50,000	40,000	50,000	50,000
500 : 1	500 : 1	200 : 1	500 : 1
Yes	Yes	Yes	Yes
-	-	-	-
-	-	-	-
-	-	-	-
Resistive	Resistive	Resistive	Resistive
Yes	Yes	Yes	Yes
3 M/AMT	3 M/AMT	3 M/AMT	AMT
TDK	TDK	TDK	TDK
100-240 V	100-240 V	100-240 V	100-240 V
NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65
0 ~ 50° C (32 ~ 122° F)	0 ~ 50° C (32 ~ 122° F)	0 ~ 50° C (32 ~ 122° F)	0 ~ 50° C (32 ~ 122° F)
-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)
BSMI, CCC, CE, FCC	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC	BSMI, CCC, CE, FCC
422 x 310 x 86 mm (16.6" x 12.2" x 3.4")	383 x 307 x 48 mm (15" x 12" x 1.89")	312 x 244 x 44.6 mm (12.28" x 9.61" x 1.76")	220 x 150 x 45 mm (8.7" x 5.9" x 1.8")
8-12	8-14	8-16	8-18

1
PAC & Software

2
BAS

3
UNO

4
RS-485 I/O

5
Ethernet I/O

6
TPC

7
IPPC

8
FPM

9
AWS

10
Plug-in I/O

11
CompactPCI

12
Signal Conditioning

13
USB I/O

14
Motion Control I/O

15
Ethernet Switch

16
EDG

17
ICOM

FPM-3190G

Industrial 19" SXGA Flat Panel Monitor with Direct-VGA Port, DVI, Video, S-Video

NEW



Features

- 19" SXGA TFT LCD with resolution up to 1280 x 1024
- Robust design with stainless steel chassis and aluminum front panel
- Hard anodic coating to prevent panel abrasion and acid corrosion
- Anti-reflective screen with tempered glass
- Supports stainless steel front panel (Customization)
- OSD control pad on front panel
- Supports industrial 24-48 V_{DC} power input (Optional)
- Supports transreflective LCD technology (Customization)
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting
- NEMA4/IP65 Compliant
- RoHS Compliant

Introduction

FPM-3190G is a 19" color TFT LCD flat panel monitor specifically designed for industrial applications. With a viewing size as large as 19", it presents an ample display area as well as vivid and sharp images for your HMI. It features Direct-VGA signal transmission and the onscreen display function makes it easy to adjust the images on the screen. The stainless steel chassis and the NEMA4/IP65 compliant aluminum front panel enable installation in applications with water and dust. An optional stainless steel front panel is available by request.

Specifications

General

- **Button Controls** OSD (Onscreen Display) control pad on front panel
- **Certification** BSMI, CCC, CE, FCC-B
- **Dimension (W x H x D)** 482 x 399 x 66 mm (19" x 15.7" x 2.6")
- **Enclosure** Front panel : Aluminum with hard anodic coating,
Rear cover : Stainless steel chassis
- **Mounting** Panel, wall, desktop, VESA arm, or 19" rackmount with optional mounting kit
- **Power Input** External 60 W power adapter, with AC 100 V ~ 240 V input and DC +12 V @ 5 A output
- **Video Port** VGA, DVI-D, S-Video, Video
- **Weight (Net)** 10.65 kg (23.46 lbs)

LCD Display

- **Display Type** SXGA TFT LCD (AUO)
- **Display Size** 19"
- **Max. Resolution** 1280 x 1024
- **Max. Color** 16.7M
- **Viewing Angle (H, V)°** 178, 178
- **Luminance (cd/m²)** 300
- **Backlight Life (hrs)** 50,000
- **Contrast Ratio** 1000 : 1

Touchscreen (Optional)

- **Sensor** ELO
- **Type** 5W Resistive
- **Interface** RS-232 or USB
- **Lifespan** 35 million touches at a single point
- **Light Transmission** 80%±5
- **OS Support** DOS, Windows® 95/98/ME/2000/XP/NT
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** 4096 x 4096

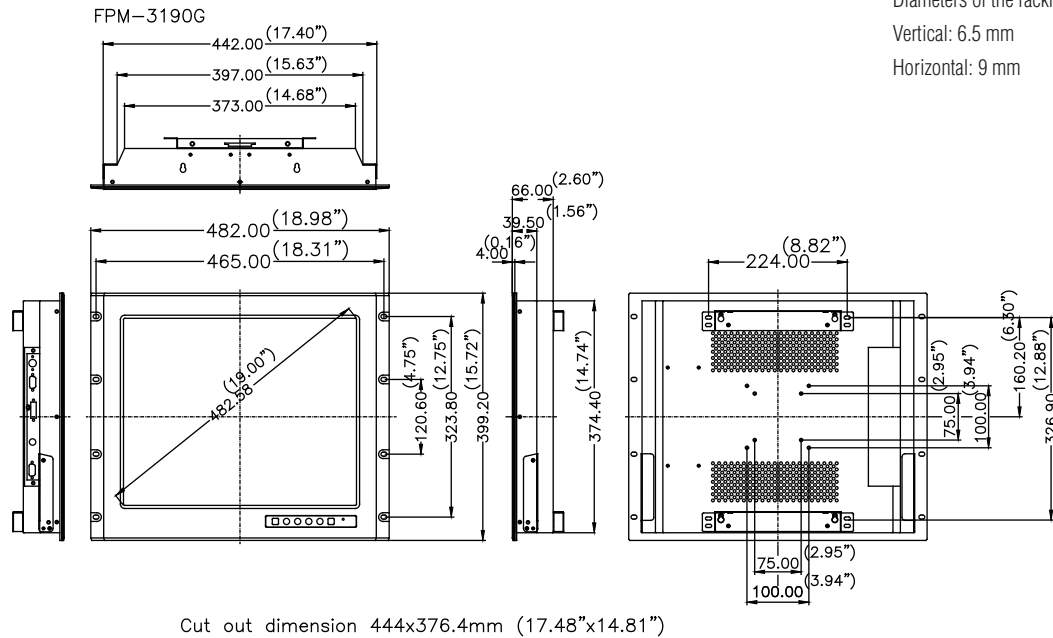
Environment

- **Operation Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Humidity (Storage)** 10 ~ 95% non-condensing
- **Waterproof** IEC529 IP65 (Front Panel)
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

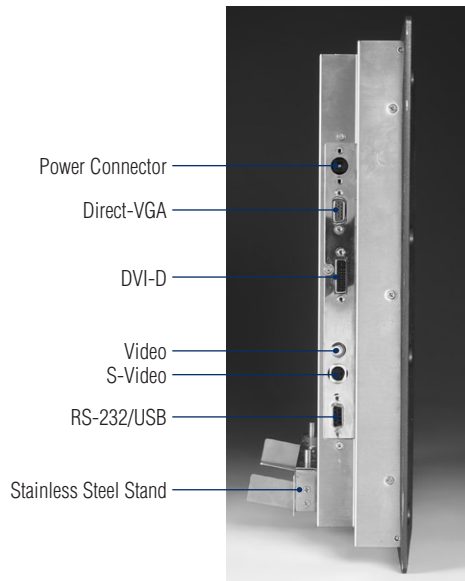
Ordering Information

- **FPM-3190G-XBE** Ind. 19" SXGA FPM w/D-VGA,DVI-D,S-V,Video Input
- **FPM-3190G-RBE** FPM-3190G-XBE w/Resistive TS (RS-232 interface)
- **FPM-3190G-UBE** FPM-3190G-XBE w/Resistive TS (USB Interface)
- **PWR-246E** Ind. DC to DC Converter w/24-48V_{DC} Power Input

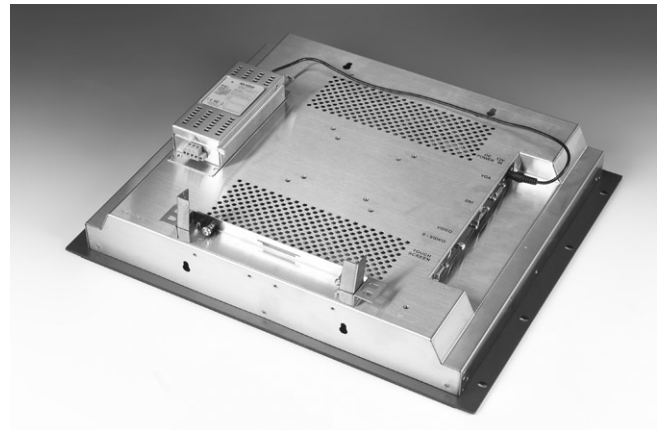
Dimensions



I/O View



Mounting with DC Source



1

PAC & Software

2

BAS

3

UNO

4

RS-485 I/O

5

Ethernet I/O

6

TPC

7

IPPC

8

FPM

9

AWS

10

Plug-in I/O

11

CompactPCI

12

Signal Conditioning

13

USB I/O

14

Motion Control I/O

15

Ethernet Switch

16

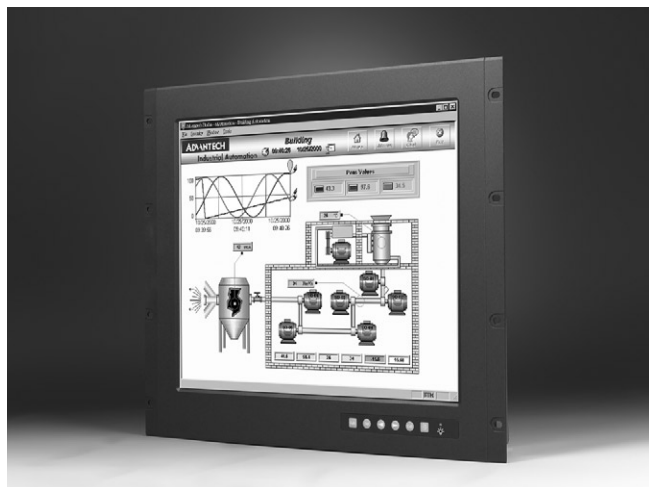
EDG

17

ICOM

FPM-3191G

Industrial 19" SXGA Flat Panel Monitor with Direct-VGA Port



Features

- 19" SXGA TFT LCD with resolution up to 1280 x 1024
- Robust design with stainless steel chassis and aluminum front panel
- Hard anodic coating to prevent panel abrasion and acid corrosion
- Anti-reflective screen with tempered glass
- Supports stainless steel front panel (Customization)
- OSD control pad on front panel
- Supports industrial 24-48 V_{DC} power input (Optional)
- Supports transreflective LCD technology (Customization)
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting
- NEMA4/IP65 Compliant
- RoHS Compliant

Introduction

FPM-3191G is a 19" color TFT LCD flat panel monitor specifically designed for industrial applications. With a viewing size as large as 19", it presents an ample display area as well as vivid and sharp images for your HMI. It features Direct-VGA signal transmission and the onscreen display function makes it easy to adjust the images on the screen. The stainless steel chassis and the NEMA4/IP65 compliant aluminum front panel enable installation in applications with water and dust. An optional stainless steel front panel is available by request.

Specifications

General

- **Button Controls** OSD (Onscreen Display) control pad on front panel
- **Certification** BSMI, CCC, CE, FCC-B
- **Dimension (W x H x D)** 482 x 399 x 66 mm (19" x 15.7" x 2.6")
- **Enclosure** Front panel : Aluminum with hard anodic coating,
Rear cover : Stainless steel chassis
- **Mounting** Panel, wall, desktop, VESA arm, or 19" rackmount with optional mounting kit
- **Power Input** External 60 W power adapter, with AC 100 V ~ 240 V input and DC +12 V @ 5 A output
- **Video Port** VGA
- **Weight (Net)** 10.65 kg (23.46 lbs)

LCD Display

- **Display Type** SXGA TFT LCD (AUO)
- **Display Size** 19"
- **Max. Resolution** 1280 x 1024
- **Max. Color** 16.7M
- **Viewing Angle (H, V)°** 178, 178
- **Luminance (cd/m²)** 300
- **Backlight Life (hrs)** 50,000
- **Contrast Ratio** 1000 : 1

Touchscreen (Optional)

- **Sensor** ELO
- **Type** 5W Resistive
- **Interface** RS-232 or USB
- **Lifespan** 35 million touches at a single point
- **Light Transmission** 80%±5
- **OS Support** DOS, Windows® 95/98/ME/2000/XP/NT
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** 4096 x 4096

Environment

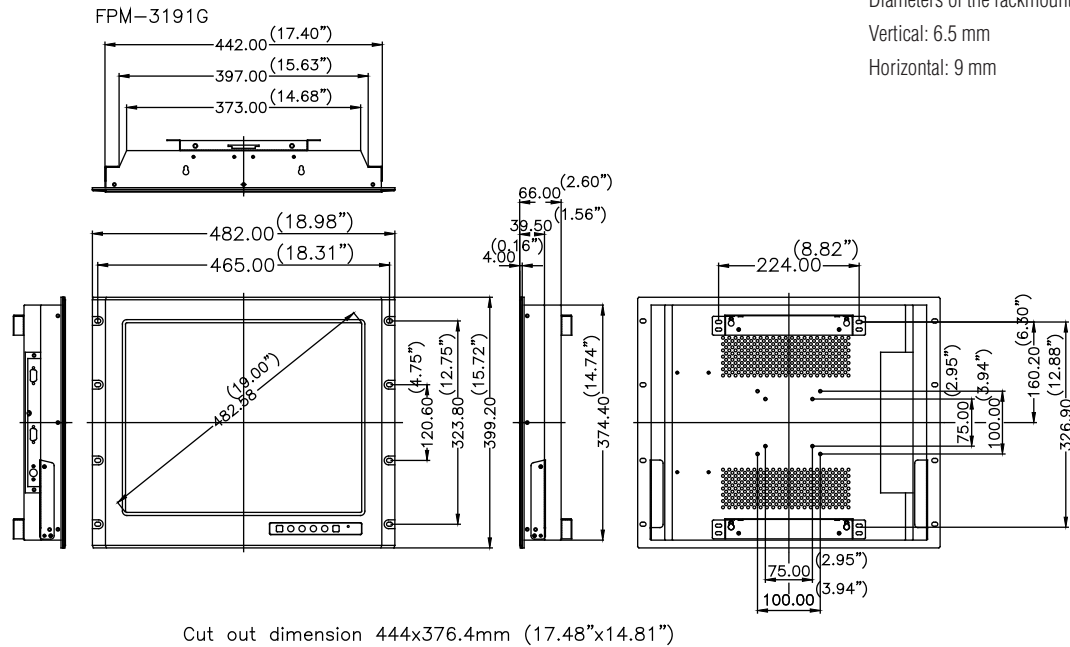
- **Operation Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Humidity (Storage)** 10 ~ 95% non-condensing
- **Waterproof** IEC529 IP65 (Front Panel)
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

Ordering Information

- **FPM-3191G-XBE** Industrial 19" SXGA Flat Panel Monitor
- **FPM-3191G-RBE** FPM-3191G-XBE w/Resistive TS (RS-232 interface)
- **FPM-3191G-UBE** FPM-3191G-XBE w/Resistive TS (USB Interface)
- **PWR-246E** Ind. DC to DC Converter w/24-48V_{DC} Power Input

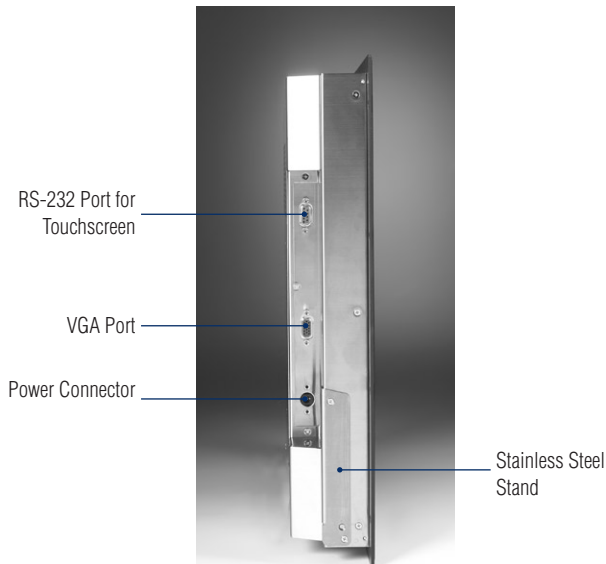
Dimensions

Unit: mm

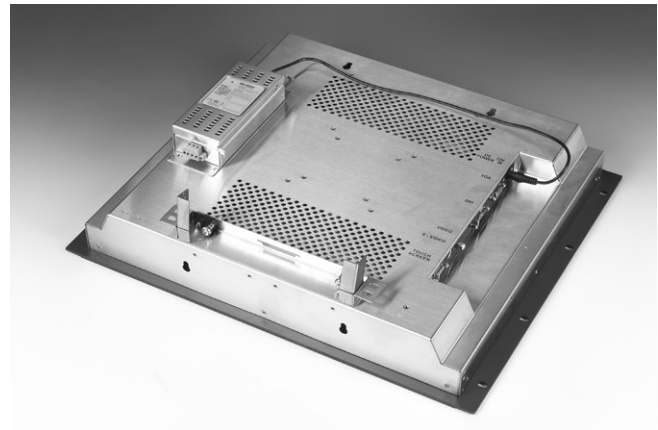


Diameters of the rackmount holes:
Vertical: 6.5 mm
Horizontal: 9 mm

Side View



Mounting with DC Source



1
PAC & Software

2
BAS

3
UNO

4
RS-485 I/O

5
Ethernet I/O

6
TPC

7
IPPC

8
FPM

9
AWS

10
Plug-in I/O

11
CompactPCI

12
Signal Conditioning

13
USB I/O

14
Motion Control I/O

15
Ethernet Switch

16
EDG

17
ICOM

FPM-3170G

Industrial 17" SXGA Flat Panel Monitor with Direct-VGA Port, DVI, Video, S-Video

NEW



Features

- 17" SXGA TFT LCD with resolution up to 1280 x 1024
- Robust design with stainless steel chassis and aluminum front panel
- Hard anodic coating to prevent panel abrasion and acid corrosion
- Anti-reflective screen with tempered glass
- Supports stainless steel front panel (Customization)
- OSD control pad on front panel
- Supports industrial 24-48 V_{DC} power input (Optional)
- Supports transreflective LCD technology (Customization)
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting
- NEMA4/IP65 Compliant
- RoHS Compliant

Introduction

FPM-3170G is a 17-inch color TFT LCD flat panel monitor specifically designed for industrial applications. With a viewing size as large as 17", it presents an ample display area as well as vivid and sharp images for your HMI. It features direct VGA signal transmission. You can thus upgrade the displays without making changes to the existing system. The onscreen display function also makes it easy to adjust the images on the screen. The whole chassis is designed in stainless steel and the front panel is made of aluminum with NEMA4/IP65 compliance.

Specifications

General

- **Button Controls** OSD (Onscreen Display) control pad on front panel
- **Certification** BSMI, CCC, CE, FCC-B
- **Dimension (W x H x D)** 482 x 354 x 68 mm (19" x 13.9" x 2.7")
- **Enclosure** Front panel : Aluminum with hard anodic coating, Rear cover : Stainless steel chassis
- **Mounting** Panel, wall, desktop, VESA arm, or 19" rackmount with optional mounting kit
- **Power Input** External 50 W power adapter, with AC 100 V ~ 240 V input and DC +12 V @ 4.16 A output
- **Video Port** VGA, DVI-D, S-Video, Video
- **Weight (Net)** 9.25 kg (20.39 lbs)

LCD Display

- **Display Type** SXGA TFT LCD (CPT)
- **Display Size** 17"
- **Max. Resolution** 1280 x 1024
- **Max. Color** 16.2M
- **Viewing Angle (H, V)°** 140, 130
- **Luminance (cd/m²)** 300
- **Backlight Life (hrs)** 40,000
- **Contrast Ratio** 500 : 1

Touchscreen (Optional)

- **Sensor** ELO
- **Type** 5W Resistive
- **Interface** RS-232 or USB
- **Lifespan** 35 million touches at a single point
- **Light Transmission** 80%±5
- **OS Support** DOS, Windows® 95/98/ME/2000/XP/NT
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** 4096 x 4096

Environment

- **Operation Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Humidity (Storage)** 10 ~ 95% non-condensing
- **Waterproof** IEC529 IP65 (Front Panel)
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

Ordering Information

- **FPM-3170G-XBE** Ind.17" SXGA FPM w/D-VGA,DVI-D,S-V,Video Input
- **FPM-3170G-RBE** FPM-3170G-XBE w/Resistive TS (RS-232 interface)
- **FPM-3170G-UBE** FPM-3170G-XBE w/Resistive TS (USB Interface)
- **PWR-246E** Ind. DC to DC Converter w/24-48 V_{DC} Power Input

Dimensions

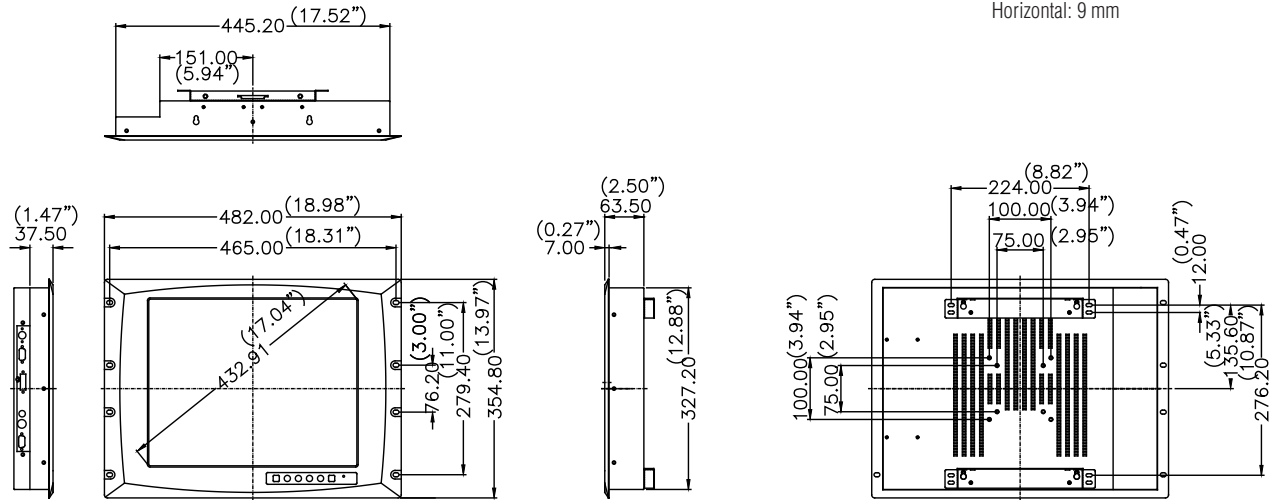
FPM-3170G

Unit: mm

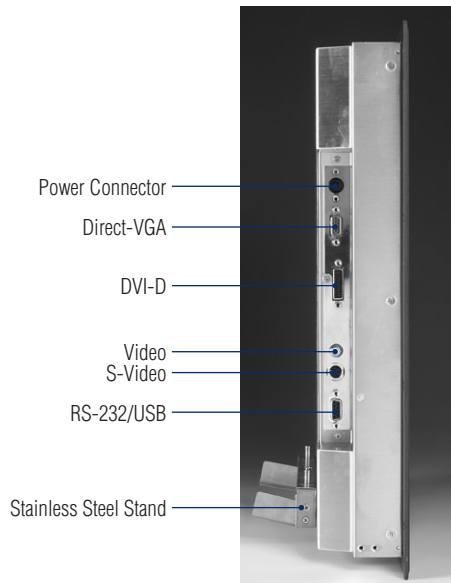
Diameters of the rackmount holes:

Vertical: 6.5 mm

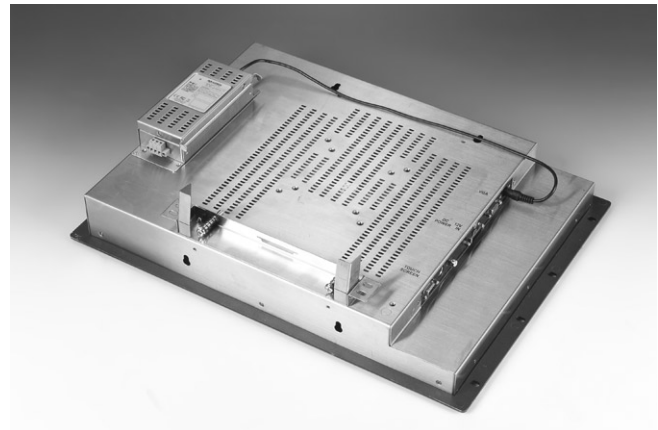
Horizontal: 9 mm



I/O View



Mounting with DC Source



- 1 PAC & Software
- 2 BAS
- 3 UNO
- 4 RS-485 I/O
- 5 Ethernet I/O
- 6 TPC
- 7 IPPC
- 8 FPM
- 9 AWS
- 10 Plug-in I/O
- 11 CompactPCI
- 12 Signal Conditioning
- 13 USB I/O
- 14 Motion Control I/O
- 15 Ethernet Switch
- 16 EDG
- 17 ICOM

FPM-3171G

Industrial 17" SXGA Flat Panel Monitor with Direct-VGA Port



Features

- 17" SXGA TFT LCD with resolution up to 1280 x 1024
- Robust design with stainless steel chassis and aluminum front panel
- Hard anodic coating to prevent panel abrasion and acid corrosion
- Anti-reflective screen with tempered glass
- Supports stainless steel front panel (Customization)
- OSD control pad on front panel
- Supports industrial 24-48 V_{DC} power input (Optional)
- Supports transreflective LCD technology (Customization)
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting
- NEMA4/IP65 Compliant
- RoHS Compliant

Introduction

FPM-3171G is a 17-inch color TFT LCD flat panel monitor specifically designed for industrial applications. With a viewing size as large as 17", it presents an ample display area as well as vivid and sharp images for your HMI. It features direct VGA signal transmission. You can thus upgrade the displays without making changes to the existing system. The onscreen display function also makes it easy to adjust the images on the screen. The whole chassis is designed in stainless steel and the front panel is made of aluminum with NEMA4/IP65 compliance.

Specifications

General

- **Button Controls** OSD (Onscreen Display) control pad on front panel
- **Certification** BSMI, CCC, CE, FCC-B
- **Dimension (W x H x D)** 482 x 354 x 68 mm (19" x 13.9" x 2.7")
- **Enclosure** Front panel : Aluminum with hard anodic coating,
Rear cover : Stainless steel chassis
- **Mounting** Panel, wall, desktop, VESA arm, or 19" rackmount with optional mounting kit
- **Power Input** External 50 W power adapter, with AC 100 V ~ 240 V input and DC +12 V @ 4.16 A output
- **Video Port** VGA
- **Weight (Net)** 9.25 kg (20.39 lbs)

LCD Display

- **Display Type** SXGA TFT LCD (CPT)
- **Display Size** 17"
- **Max. Resolution** 1280 x 1024
- **Max. Color** 16.2M
- **Viewing Angle (H, V)°** 140, 130
- **Luminance (cd/m²)** 300
- **Backlight Life (hrs)** 40,000
- **Contrast Ratio** 500 : 1

Touchscreen (Optional)

- **Sensor** ELO
- **Type** 5 W Resistive
- **Interface** RS-232 or USB
- **Lifespan** 35 million touches at a single point
- **Light Transmission** 80%±5
- **OS Support** DOS, Windows® 95/98/ME/2000/XP/NT
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** 4096 x 4096

Environment

- **Operation Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Humidity (Storage)** 10 ~ 95% non-condensing
- **Waterproof** IEC529 IP65 (Front Panel)
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

Ordering Information

- **FPM-3171G-XBE** Industrial 17" SXGA Flat Panel Monitor
- **FPM-3171G-RBE** FPM-3171G-XBE w/Resistive TS (RS-232 Interface)
- **FPM-3171G-UBE** FPM-3171G-XBE w/Resistive TS (USB Interface)
- **PWR-246E** Ind. DC to DC Converter w/24-48 V_{DC} Power Input

Dimensions

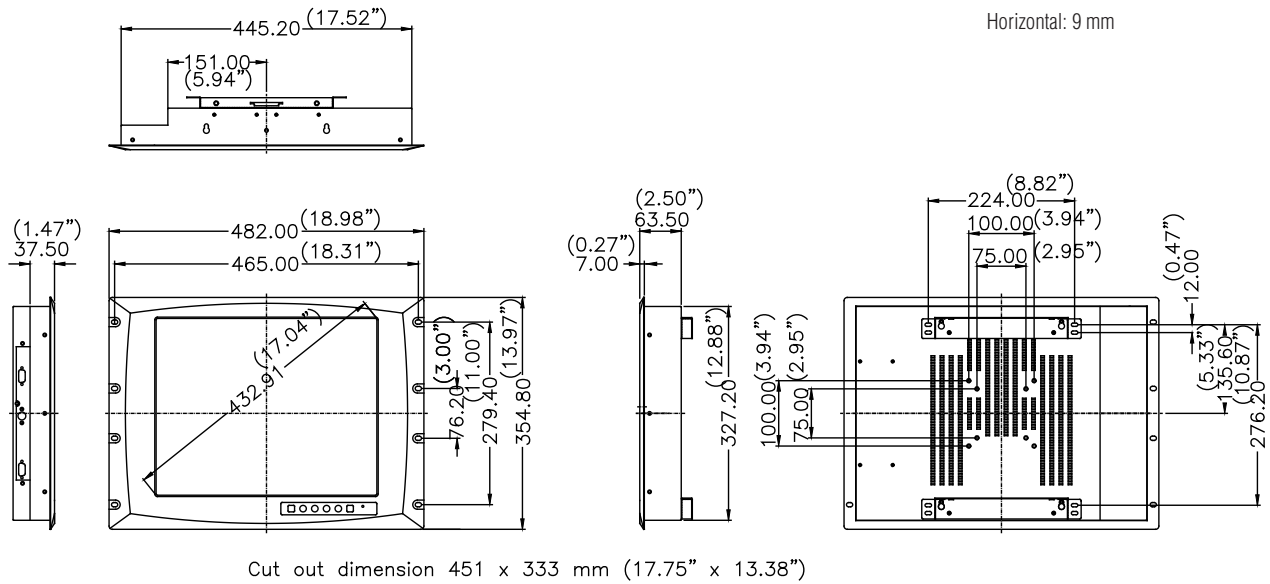
FPM-3171G

Unit: mm

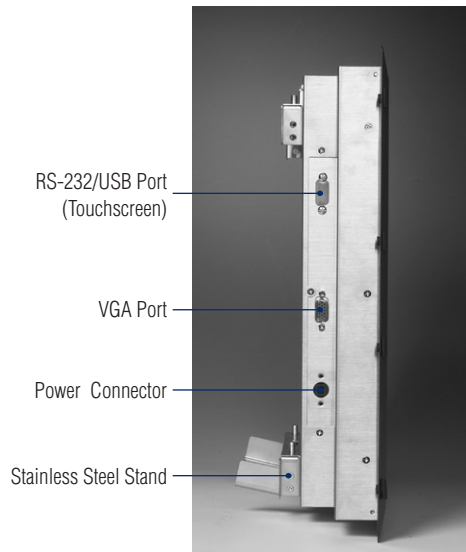
Diameters of the rackmount holes:

Vertical: 6.5 mm

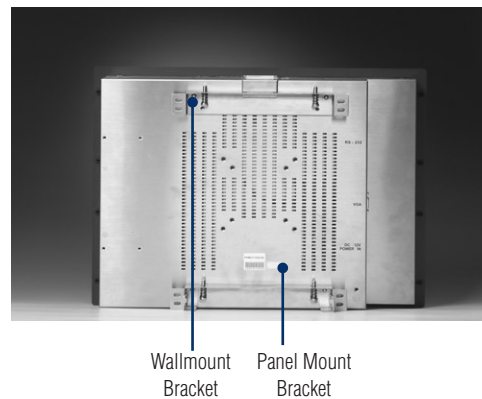
Horizontal: 9 mm



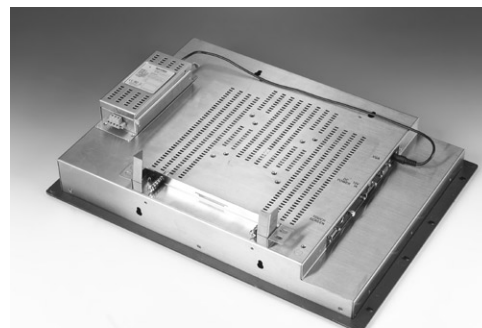
Side View



Rear View



Mounting with DC Source



- 1 PAC & Software
- 2 BAS
- 3 UNO
- 4 RS-485 I/O
- 5 Ethernet I/O
- 6 TPC
- 7 IPPC
- 8 FPM
- 9 AWS
- 10 Plug-in I/O
- 11 CompactPCI
- 12 Signal Conditioning
- 13 USB I/O
- 14 Motion Control I/O
- 15 Ethernet Switch
- 16 EDG
- 17 ICOM

FPM-3150G

Industrial 15" XGA Flat Panel Monitor with Direct-VGA Port



Features

- 15" XGA TFT LCD with resolution up to 1024 x 768
- Robust design with stainless steel chassis and aluminum front panel
- Hard anodic coating to prevent panel abrasion and acid corrosion
- Anti-reflective screen with tempered glass
- Supports stainless steel front panel (Customization)
- OSD control pad on front panel
- Supports industrial 24-48 V_{DC} power input (Optional)
- Supports transreflective LCD technology (Customization)
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting
- NEMA4/IP65 Compliant
- RoHS Compliant

Introduction

FPM-3150G is a 15-inch color TFT LCD flat panel monitor specifically designed for industrial applications. With a viewing size as large as 15", it presents an ample display area as well as vivid and sharp images for your HMI. It features Direct-VGA signal transmission, which allows a regular VGA control card to be used in your system. Users can thus upgrade the display without making changes to the existing system. Its on screen display function also allows users to adjust the images on the screen with ease. The whole chassis is stainless steel and the front panel is made of aluminum with NEMA4/IP65 compliance.

Specifications

General

- **Button Controls** OSD (Onscreen Display) control pad on front panel
- **Certification** BSMI, CCC, CE, FCC-B
- **Dimension (W x H x D)** 422 x 310 x 86 mm (16.6" x 12.2" x 3.4")
- **Enclosure** Front panel : Aluminum with hard anodic coating,
Rear cover : Stainless steel chassis
- **Mounting** Panel, wall, desktop, VESA arm, or 19" rackmount with optional mounting kit
- **Power Input** External 50 W power adapter, with AC 100 V ~ 240 V input and DC +12 V @ 4.16 A output
- **Video Port** VGA
- **Weight (Net)** 7.73 kg (17.04 lbs)

LCD Display

- **Display Type** XGA TFT LCD (CPT)
- **Display Size** 15"
- **Max. Resolution** 1024 x 768
- **Max. Color** 16.2M
- **Viewing Angle (H, V)°** 140, 125
- **Luminance (cd/m²)** 400
- **Backlight Life (hrs)** 50,000
- **Contrast Ratio** 500 : 1

Touchscreen (Optional)

- **Sensor** 3 M/AMT
- **Type** 8W Resistive
- **Interface** RS-232 or USB
- **Lifespan** 1 million touches at a single point (3 M)
10 million with a silicone rubber of R8 finger, writing rate is by 250g at 2 times/s (AMT)
- **Light Transmission** 79%±2 (3 M)
> 80% (AMT)
- **OS Support** (RS-232) Windows® 95/98/ME/2000/XP/CE/NT, Linux (USB) Linux, Windows CE/XP
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** Linearity

Environment

- **Operation Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Humidity (Storage)** 10 ~ 95% non-condensing
- **Waterproof** IEC529 IP65 (Front Panel)
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

Ordering Information

- **FPM-3150G-XBE** Industrial 15" XGA Flat Panel Monitor
- **FPM-3150G-RBE** FPM-3150G-XBE with Resistive Touchscreen (RS-232 interface)
- **FPM-3150G-UBE** FPM-3150G-XBE with Resistive Touchscreen (USB interface)
- **PWR-246E** Ind. DC to DC Converter w/24-48 V_{DC} Power Input

FPM-2150G

Industrial 15" XGA Flat Panel Monitor with Direct-VGA Port



Features

- 15" XGA TFT LCD with resolution up to 1024 x 768
- Robust design with aluminum front panel
- Hard anodic coating to prevent panel abrasion and acid corrosion
- Anti-reflective screen with tempered glass
- Supports stainless steel front panel (Customization)
- OSD control pad on front panel
- Supports industrial 24-48 V_{DC} power input (Optional)
- Supports transreflective LCD technology (Customization)
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting
- NEMA4/IP65 Compliant
- RoHS Compliant

Introduction

FPM-2150G is an industrial-grade 15" TFT LCD flat panel monitor with an Al-Mg front panel, a modern appearance, and one of the most competitive prices for 15" LCD monitors on the market. The FPM-2150G is also extremely light and thin, and provides many industrial-grade features such as a NEMA4/IP65 certified front panel, stainless steel chassis, VESA mounting flexibility, and more. The FPM-2150G is especially suitable for industrial PCs such as IPC-610 or IPC-6806. This combination leads to an extremely reliable and tough system, ready to operate in a wide variety of industrial applications.

Specifications

General

- **Button Controls** OSD (Onscreen Display) control pad on front panel
- **Certification** BSMI, CCC, CE, FCC-B
- **Dimension (W x H x D)** 383 x 307 x 48 mm (15" x 12" x 1.9")
- **Enclosure** Front panel : Aluminum with hard anodic coating,
Rear cover : SECC coating chassis
- **Mounting** Panel, wall, desktop, VESA arm, or 19" rackmount with optional mounting kit
- **Power Input** External 50 W power adapter, with AC 100 V ~ 240 V input and DC +12 V @ 4.16 A output
- **Video Port** VGA
- **Weight (Net)** 5.60 kg (12.34 lbs)

LCD Display

- **Display Type** XGA TFT LCD (CPT)
- **Display Size** 15"
- **Max. Resolution** 1024 x 768
- **Max. Color** 16.2M
- **Viewing Angle (H/V)°** 140, 125
- **Luminance (cd/m²)** 250
- **Backlight Life (hrs)** 40,000
- **Contrast Ratio** 500 : 1

Touchscreen (Optional)

- **Sensor** 3 M/AMT
- **Type** 8W Resistive
- **Interface** RS-232 or USB
- **Lifespan** 1 million touches at a single point (3 M)
10 million with a silicone rubber of R8 finger, writing rate is by 250g at 2 times/s (AMT)
- **Light Transmission** 79%±2 (3 M)
> 80% (AMT)
- **OS Support** (RS-232) Windows® 95/98/ME/2000/XP/CE/NT, Linux (USB) Linux, Windows CE/XP
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** Linearity

Environment

- **Operation Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Humidity (Storage)** 10 ~ 95% non-condensing
- **Waterproof** IEC529 IP65 (Front Panel)
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

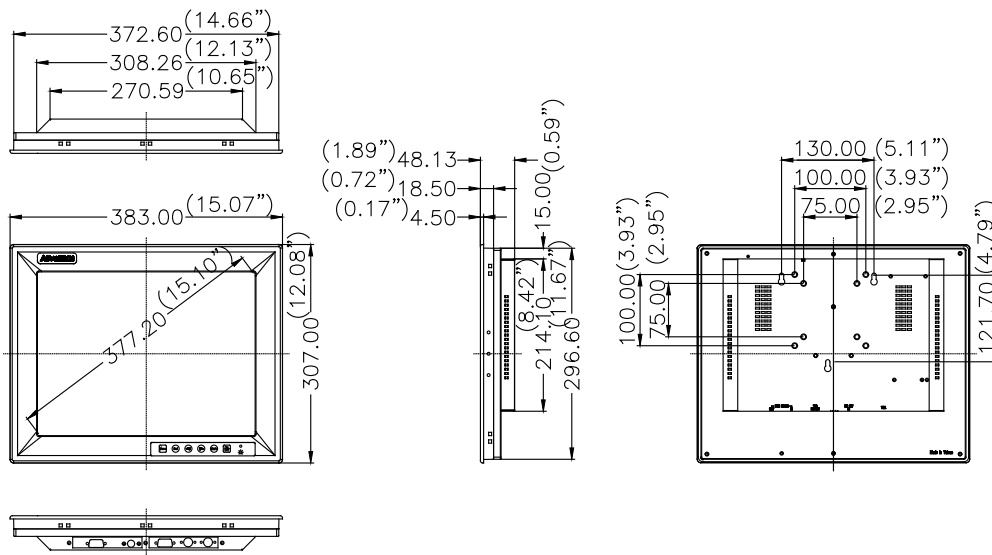
Ordering Information

- **FPM-2150GBE** Industrial 15" XGA Flat Panel Monitor
- **FPM-2150GB-RE** FPM-2150GBE with Resistive Touchscreen (RS-232 interface)
- **FPM-2150GB-UE** FPM-2150GBE with Resistive Touchscreen (USB interface)
- **PWR-246E** Ind. DC to DC Converter w/24-48 V_{DC} Power Input

Dimensions

FPM-2150G

Unit: mm



Cut out dimension 374.6 x 298.6 mm (14.74" x 11.75")

I/O View

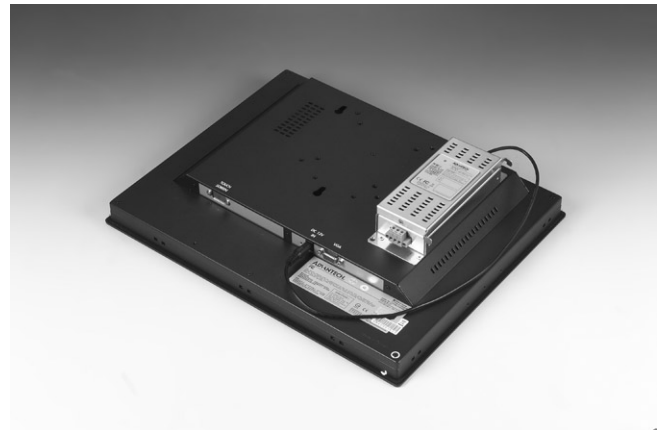


Touchscreen
(RS-232/USB)

Power
Connector

VGA Port

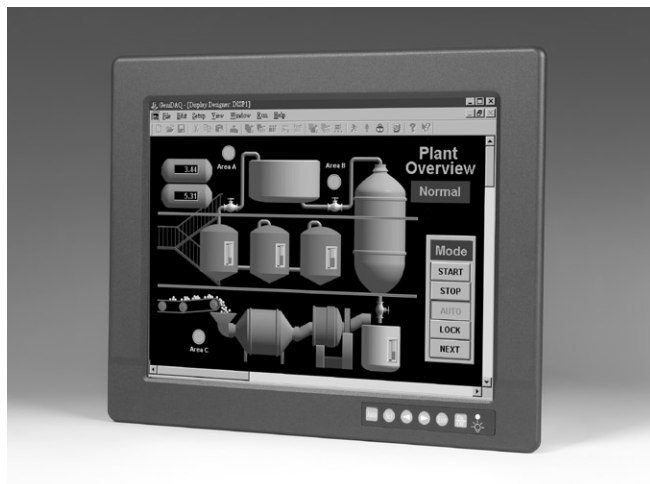
Mounting with DC Source



- 1 PAC & Software
- 2 BAS
- 3 UNO
- 4 RS-485 I/O
- 5 Ethernet I/O
- 6 TPC
- 7 IPPC
- 8 FPM
- 9 AWS
- 10 Plug-in I/O
- 11 CompactPCI
- 12 Signal Conditioning
- 13 USB I/O
- 14 Motion Control I/O
- 15 Ethernet Switch
- 16 EDG
- 17 ICOM

FPM-3120G

Industrial 12" SVGA Flat Panel Monitor with Direct-VGA Port



Features

- 12.1" SVGA TFT LCD with resolution up to 800 x 600
- Robust design with stainless steel chassis and aluminum front panel
- Hard anodic coating to prevent panel abrasion and acid corrosion
- Anti-reflective screen with tempered glass
- Supports stainless steel front panel (Customization)
- OSD control pad on front panel
- Supports industrial 24-48 V_{DC} power input (Optional)
- Supports transreflective LCD technology (Customization)
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting
- NEMA4/IP65 Compliant
- RoHS Compliant

Introduction

FPM-3120G is 12-inch color TFT LCD flat panel monitor specially designed for industrial or public applications with limited installation space. With a new industrial design, mounting is extremely easy and fits most environments perfectly. The FPM-3120G features Direct-VGA signal transmissions to allow a regular VGA control card to be used in your system. Users can thus upgrade the display without making changes to the existing system. Its onscreen display function lets users adjust the image easily. The whole chassis is stainless steel and the front panel is made of aluminum with NEMA4/IP65 compliance.

Specifications

General

- **Button Controls** OSD (Onscreen Display) control pad on front panel
- **Certification** BSMI, CCC, CE, FCC-B
- **Dimension (W x H x D)** 312 x 244 x 44.6 mm (12.3" x 9.6" x 1.8")
- **Enclosure** Front panel : Aluminum with hard anodic coating,
Rear cover : Stainless steel chassis
- **Mounting** Panel, wall, desktop, VESA arm, or 19" rackmount with optional mounting kit
- **Power Input** External 42 W power adapter, with AC 100 V ~ 240 V input and DC +12 V @ 3.5 A output
- **Video Port** VGA
- **Weight (Net)** 4.07 kg (8.975 lbs)

LCD Display

- **Display Type** SVGA TFT LCD (Toshiba)
- **Display Size** 12.1"
- **Max. Resolution** 800 x 600
- **Max. Color** 262K
- **Viewing Angle (H/V)°** 140, 120
- **Luminance (cd/m²)** 350
- **Backlight Life (hrs)** 50,000
- **Contrast Ratio** 200 : 1

Touchscreen (Optional)

- **Sensor** 3 M/AMT
- **Type** 8W Resistive
- **Interface** RS-232
- **Lifespan** 1 million touches at a single point (3 M)
10 million with a silicone rubber of R8 finger, writing rate is by 250g at 2 times/s (AMT)
- **Light Transmission** 79%±2 (3 M)
> 80% (AMT)
- **OS Support** (RS-232) Windows® 95/98/ME/2000/XP/CE/NT, Linux (USB) Linux, Windows CE/XP
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** Linearity

Environment

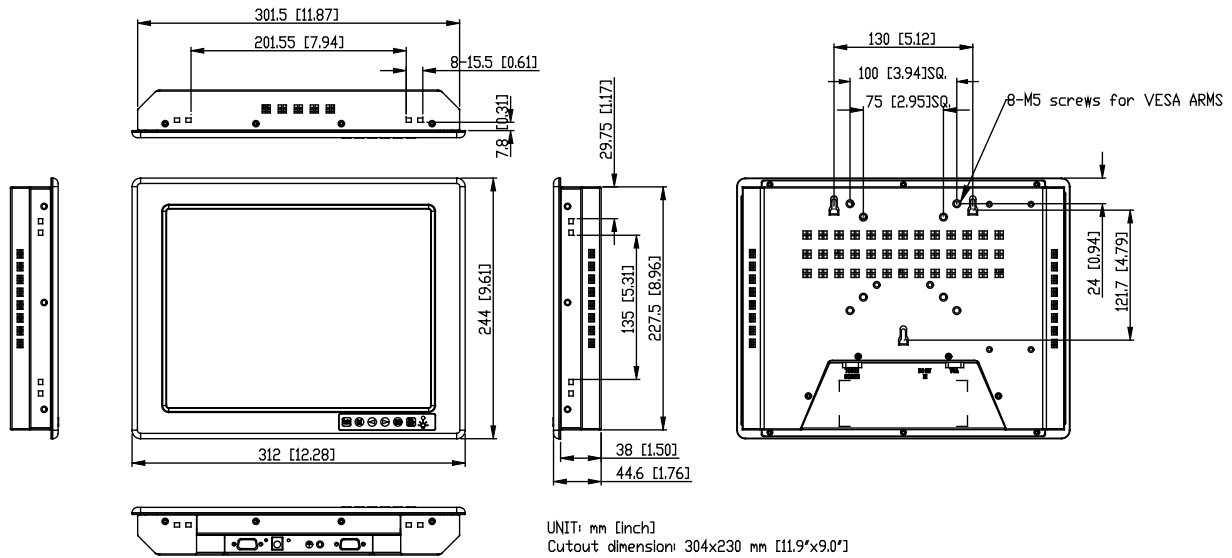
- **Operation Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Humidity (Storage)** 10 ~ 95% non-condensing
- **Waterproof** IEC529 IP65 (Front Panel)
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

Ordering Information

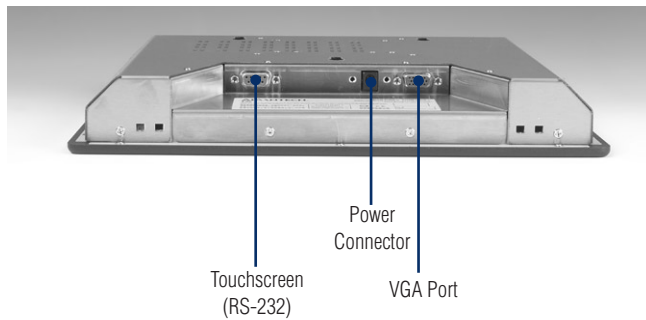
- **FPM-3120G-XAE** Industrial 12" SVGA Flat Panel Monitor
- **FPM-3120G-RAE** FPM-3120G-XAE with Resistive Touchscreen (RS-232 interface)
- **PWR-246E** Ind. DC to DC Converter w/24-48 V_{DC} Power Input

Dimensions

Unit: mm



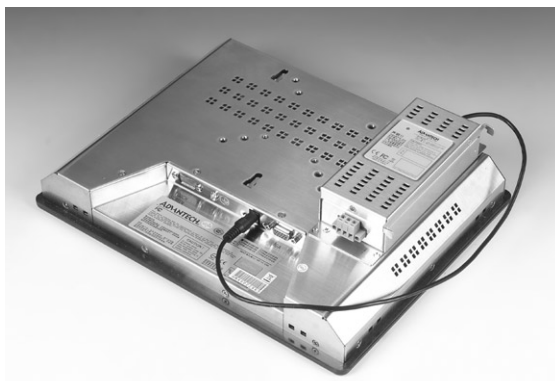
I/O View



With Desktop Stand



Mounting with DC Source



- 1 PAC & Software
- 2 BAS
- 3 UNO
- 4 RS-485 I/O
- 5 Ethernet I/O
- 6 TPC
- 7 IPPC
- 8 FPM
- 9 AWS
- 10 Plug-in I/O
- 11 CompactPCI
- 12 Signal Conditioning
- 13 USB I/O
- 14 Motion Control I/O
- 15 Ethernet Switch
- 16 EDG
- 17 ICOM

FPM-3060G

Industrial 6" VGA Flat Panel Monitor with Direct-VGA Port



Features

- 6" VGA TFT LCD with resolution up to 640 x 480
- Robust design with stainless steel chassis and aluminum front panel
- Hard anodic coating to prevent panel abrasion and acid corrosion
- Anti-reflective screen with tempered glass
- Supports stainless steel front panel (Customization)
- OSD control pad on front panel
- Supports industrial 24-48 V_{DC} power input (Optional)
- Supports transreflective LCD technology (Customization)
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting
- NEMA4/IP65 Compliant
- RoHS Compliant

Introduction

FPM-3060G is a 6" flat panel monitor designed for industrial applications with small display requirements. High brightness of up to 400 nits makes the display clearly visible, while the wide operating temperature range of 0 to 50° C combined with vibration resistance makes it suitable for rugged environments. Mounting of the small and compact display can be done in panels, with VESA arms, and even directly on products in the UNO-2000 and MBPC-200 series. Optional versions of FPM-3060G provide RS-232 or USB interfaces for a resistive touchscreen.

Specifications

General

- **Button Controls** OSD (Onscreen Display) control pad on front panel
- **Certification** BSMI, CCC, CE, FCC-B
- **Dimension (W x H x D)** 220 x 150 x 45 mm (8.7" x 5.9" x 1.8")
- **Enclosure** Front panel : Aluminum with hard anodic coating, Rear cover : Stainless steel chassis
- **Mounting** Panel, wall, desktop, VESA arm, or 19" rackmount with optional mounting kit
- **Power Input** External 42 W power adapter, with AC 100 V ~ 240 V input and DC +12 V @ 3.5 A output
- **Video Port** VGA
- **Weight (Net)** 1.82 kg (4.01 lbs)

LCD Display

- **Display Type** VGA TFT LCD (TOSHIBA)
- **Display Size** 6.5"
- **Max. Resolution** 640 x 480
- **Max. Color** 262K
- **Viewing Angle (H/V)°** 140, 120
- **Luminance (cd/m²)** 300
- **Backlight Life (hrs)** 50,000
- **Contrast Ratio** 500 : 1

Touchscreen (Optional)

- **Sensor** AMT
- **Type** 4W Resistive
- **Interface** RS-232 or USB
- **Lifespan** 10 million with a silicone rubber of R8 finger, writing rate is by 250g at 2 times/s
- **Light Transmission** > 80%
- **OS Support** (RS-232) DOS, Windows® 95/98/ME/2000/XP (USB) Windows 95/98/ME/2000/XP/CE
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** Linearity

Environment

- **Operation Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Humidity (Storage)** 10 ~ 95% non-condensing
- **Waterproof** IEC529 IP65 (Front Panel)
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

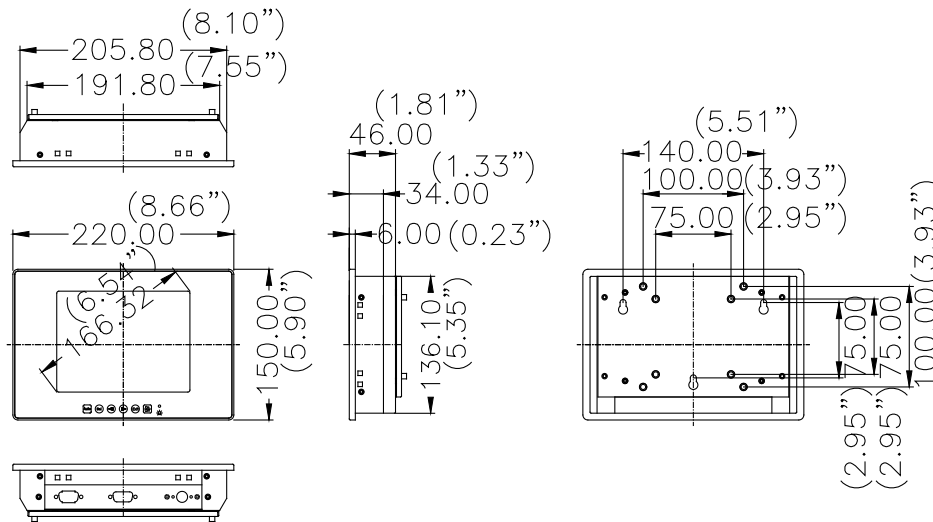
Ordering Information

- **FPM-3060G-XAE** Ind. 6" VGA FPM w/Direct-VGA Input
- **FPM-3060G-RAE** FPM-3060G-XAE w/Resistive TS (RS-232 interface)
- **FPM-3060G-UAE** FPM-3060G-XAE w/Resistive TS (USB interface)
- **PWR-246E** Ind. DC to DC Converter w/24-48 V_{DC} Power Input

Dimensions

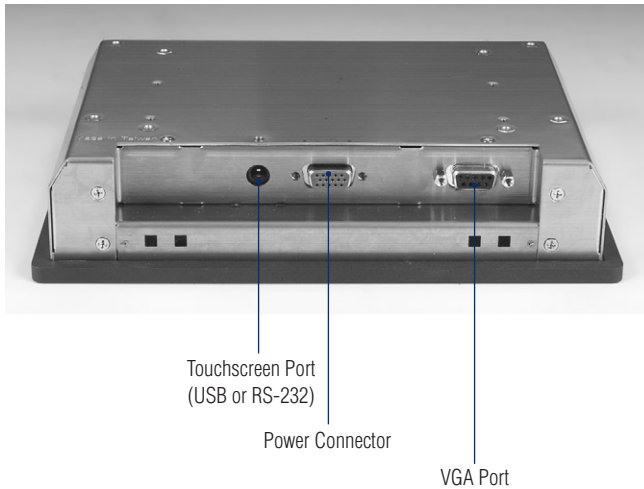
FPM-3060-XAE

Unit: mm



Cut out dimension 209.80 x 140.10mm (8.25"x5.51')

I/O View



Mounting with DC Source



- 1 PAC & Software
- 2 BAS
- 3 UNO
- 4 RS-485 I/O
- 5 Ethernet I/O
- 6 TPC
- 7 IPCC
- 8 FPM
- 9 AWS
- 10 Plug-in I/O
- 11 CompactPCI
- 12 Signal Conditioning
- 13 USB I/O
- 14 Motion Control I/O
- 15 Ethernet Switch
- 16 EDG
- 17 ICOM

FPM Accessories



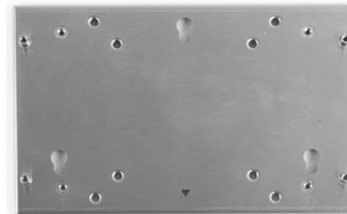
FPM-2150DESK-MTE



FPM-2150RACK-MTE



FPM-3150RACK-MTE



FPM-3060VESA-MTE



PWR-246E

Ind. DC to DC Converter w/ 24-48VDC Power Input



1700091800

RS-232 Cable 9-pin to 9-pin 180 cm

1700090001

RS-232 Cable 9-pin to 9-pin 4.5 m

1700090002

RS-232 Cable 9-pin to 9-pin 3 m

1700090000

RS-232 Cable 9-pin to 9-pin 10 m



1700151801

VGA Cable 15-pin to 15-pin 180 cm

1700155001

VGA Cable 15-pin to 15-pin 50 m

1700155000

VGA Cable 15-pin to 15-pin 5 m

1700152000

VGA Cable 15-pin to 15-pin 20 m

1700151000

VGA Cable 15-pin to 15-pin 10 m

1700153000

VGA Cable 15-pin to 15-pin 30 m