

# Мониторы для расширенного температурного диапазона серии FPM-3000

## ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

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Уфа (347)229-48-12  
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Ярославль (4852)69-52-93

# FPM-3191S

## 19" SXGA Industrial Monitor with Resistive Touchscreen, Direct-VGA and DVI Ports



### Features

- 19" SXGA TFT LED LCD with 50,000 hours of backlight life
- Robust design with stainless steel chassis and front panel
- Anti-glare screen with tempered glass and IP65 certified front panel
- Lockable OSD control pad on front panel
- Supports industrial 24 V<sub>DC</sub> power input
- Supports panel, wall, desktop, VESA arm mounting
- Front panel stainless steel with 316L level

### Introduction

The FPM-3191S 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. 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 stainless steel with front panel IP65 compliance.

### Specifications

#### General

- **Button Controls** OSD (Onscreen Display) control pad on front panel
  - **Certification** BSMI, CCC, CE, FCC Class A, UL
  - **Dimensions (W x H x D)** 489.2 x 408.6 x 68 mm (19.26" x 16.09" x 2.68")
  - **Enclosure** Front panel: Stainless steel with 316L level  
Rear cover: Stainless steel chassis
- \*Mounting holes on rear cover are designed for PWR-246E DC Source
- **Mounting** Panel, wall, desktop, VESA arm
  - **Power Input** Phoenix Jack: 24 V<sub>DC</sub> input DC Jack: external 57 W power adapter, with 100 ~ 240 V<sub>AC</sub> input and 12 V<sub>DC</sub> @ 4.75 A output
  - **Power Consumption** 35 W + 20%
  - **Video Port** VGA & DVI-D port
  - **Weight (Net)** 15 kg (33.07 lbs)

#### LCD Display

- **Display Type** SXGA TFT LCD with LED backlight
- **Display Size** 19"
- **Max. Resolution** 1280 x 1024
- **Max. Color** 16.7 M
- **Viewing Angle (H/V°)** 170/160
- **Luminance (cd/m<sup>2</sup>)** 350
- **Backlight Life (hrs)** 50,000
- **Contrast Ratio** 1000 : 1

#### Touchscreen

- **Type** 5-wire Resistive
- **Interface** RS-232 and USB
- **Lifespan** 35 million touches at a single point
- **Light Transmission** 80% ±5
- **OS Support** Windows XP, Vista, 7, XPe, CE and Linux
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** Linearity

#### Environment

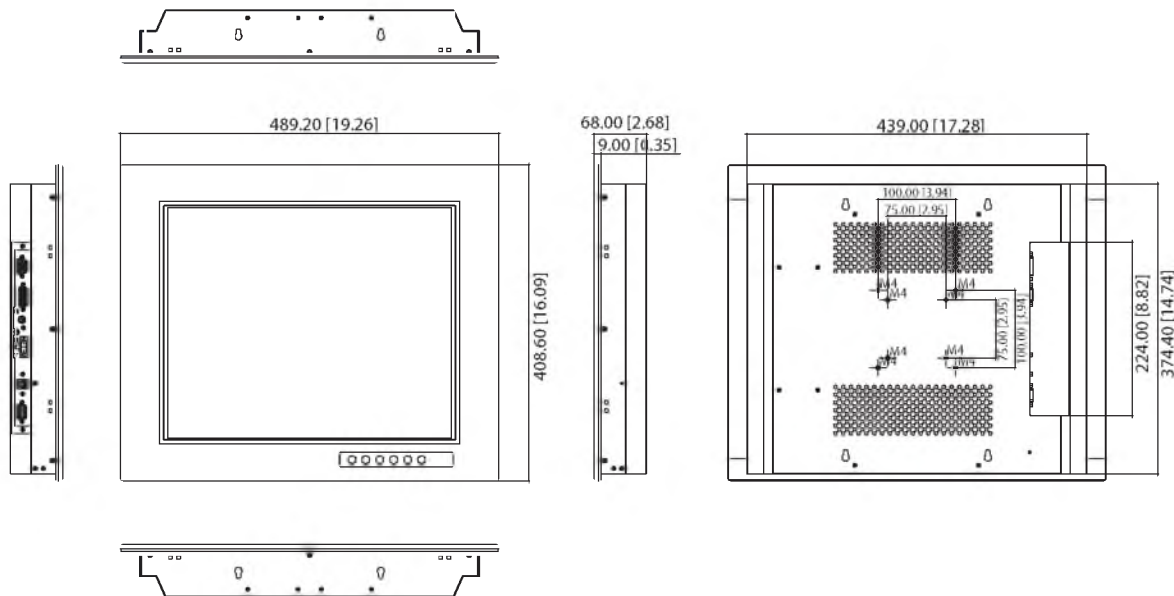
- **Operation Temperature** 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Humidity (Storage)** 10 ~ 90% non-condensing
- **Waterproof** Front panel is IP65 compliant
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

### Ordering Information

- **FPM-3191S-R3BE** 19" SXGA Ind. Monitor w/Resistive TS (RS-232,USB)

## Dimensions

Unit: mm

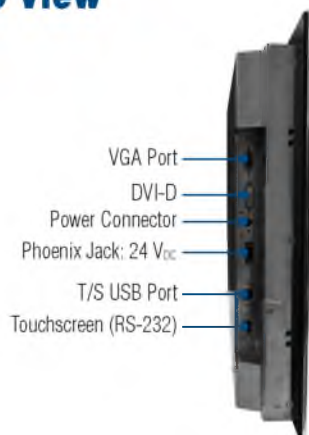


**Panel Cut-out Dimensions: 444 x 376.4 mm (17.48" x 14.82")**

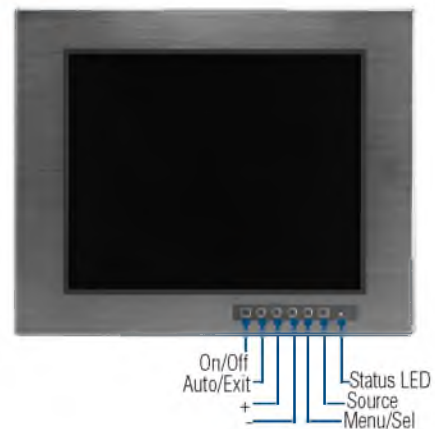
## Accessories

- PWR-246E Ind. DC to DC w/24-48 V<sub>DC</sub> 1.4-2.9A In 12 V<sub>DC</sub> 5A Out
- 1702002600 Power Cable US Plug 1.8 M
- 1702002605 Power Cable EU Plug 1.8 M
- 1702031801 Power Cable UK Plug 1.8 M
- 1700000596 Power Cable China/Australia Plug 1.8 M

## I/O View



## Front View



# 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<sub>DC</sub> 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/m<sup>2</sup>)** 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)

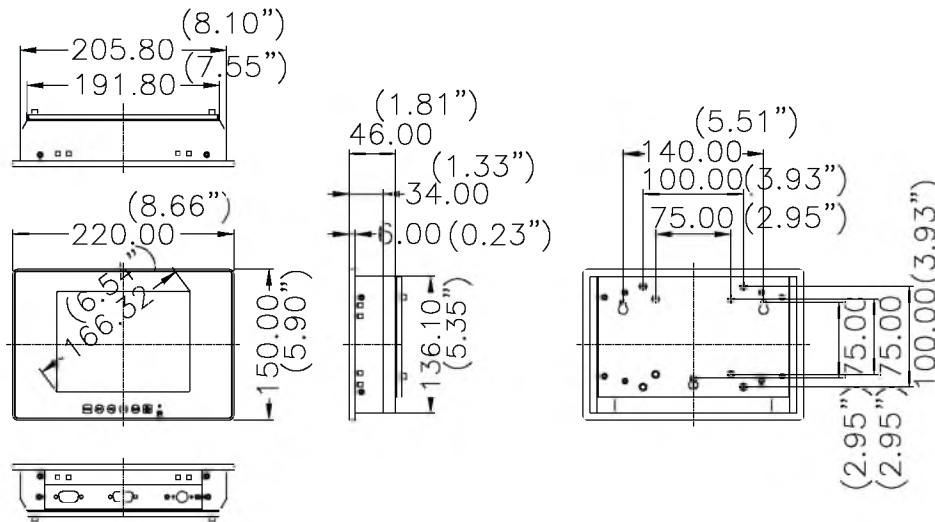
### Ordering Information

- **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<sub>DC</sub> Power Input

**Dimensions**

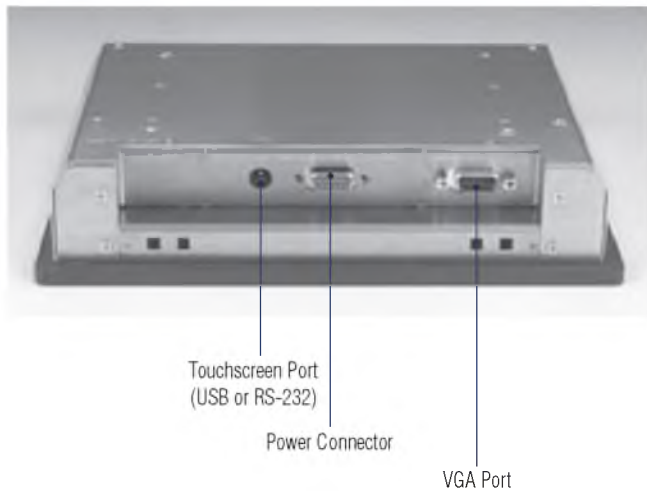
Unit: mm

FPM-3060-XAE



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

**I/O View**



**Mounting with DC Source**



# FPM-3121G

## 12.1" SVGA Industrial Monitor with Resistive Touchscreen, Direct-VGA, DVI and Wide Operating Temperature

NEW



### Features

- 12.1" SVGA LED backlight LCD with low power consumption
- Robust anodized coated aluminum front bezel and stainless steel rear cover
- Supports wide operating temperatures
- Increase reliability by enhanced 5-wire resistive touch sensor
- Anti-reflective screen with tempered glass
- Full enclosure ground isolation protection
- Supports VGA/DVI input, dual touch interfaces and two power inputs
- Front lockable OSD membrane keys with user-defined brightness setting
- Energy Star certification
- Front panel is NEMA4/IP65 compliant
- Supports panel, VESA, wall and desktop stand mounting

### Introduction

The FPM-3121G is a particularly rugged and reliable 12.1" SVGA wide temperature industrial monitor for a variety of industry applications. Equipped with a hard anodized coating, stainless steel chassis, and -20 to 60° C operating temperature, it can satisfy demands in a wide range of harsh industrial applications. This model also features enhanced 5-wire resistive touch and system ground isolation protection to enhance the reliability. Lockable OSD keys on front panel with 2 user-defined contrast/brightness settings.

### Specifications

#### General

- **Button Controls** OSD control pad on front side with lockable function  
Two user-defined contrast/brightness settings
- **Certification** CE, FCC Class A, BSMI, CCC, UL, Energy Star
- **Dimension (W x H x D)** 312 x 224 x 60 mm (12.28" x 9.61" x 2.36")
- **Enclosure** Front panel: Aluminum with hard anodized coating  
Rear cover: Stainless steel chassis  
Ground Isolation Protection
- **Mounting** Panel, VESA arm, or wall & desktop mount with optional mounting kit
- **Power Input** Phoenix Jack: 24 V<sub>DC</sub> input  
DC Jack: external 57 W power adapter, with 100 ~ 240 V<sub>AC</sub> input and +12 V<sub>DC</sub> @ 4.75 A output
- **Power Consumption** 9 W
- **Video Port** VGA & DVI-D Port
- **Weight (Net)** 4.07 kg (8.975 lbs)

#### LCD Display

- **Display Type** SVGA TFT LCD
- **Backlight Type** LED
- **Display Size** 12.1"
- **Max. Resolution** 800 x 600
- **Max. Color** 16.2M (RGB 8-bit) or 262k colors (RGB 6-bit)
- **Viewing Angle (H/V°)** 160 / 140
- **Luminance (cd/m<sup>2</sup>)** 450
- **Operation Life (hrs)** 50,000
- **Contrast Ratio** 700:1

#### Touchscreen (Optional)

- **Sensor** AMT
- **Driver** Penmount 6000
- **Type** 5-wire Resistive with enhanced ITO film
- **Interface** USB & RS-232 (Combo)
- **Lifespan** 36 million with a silicone rubber of R8 finger, writing rate is by 250g at 2 times/s
- **Light Transmission** > 80%
- **OS Support** Windows 2000, XP, Vista, 7, XPe, CE and Linux
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** Linearity

#### Environment

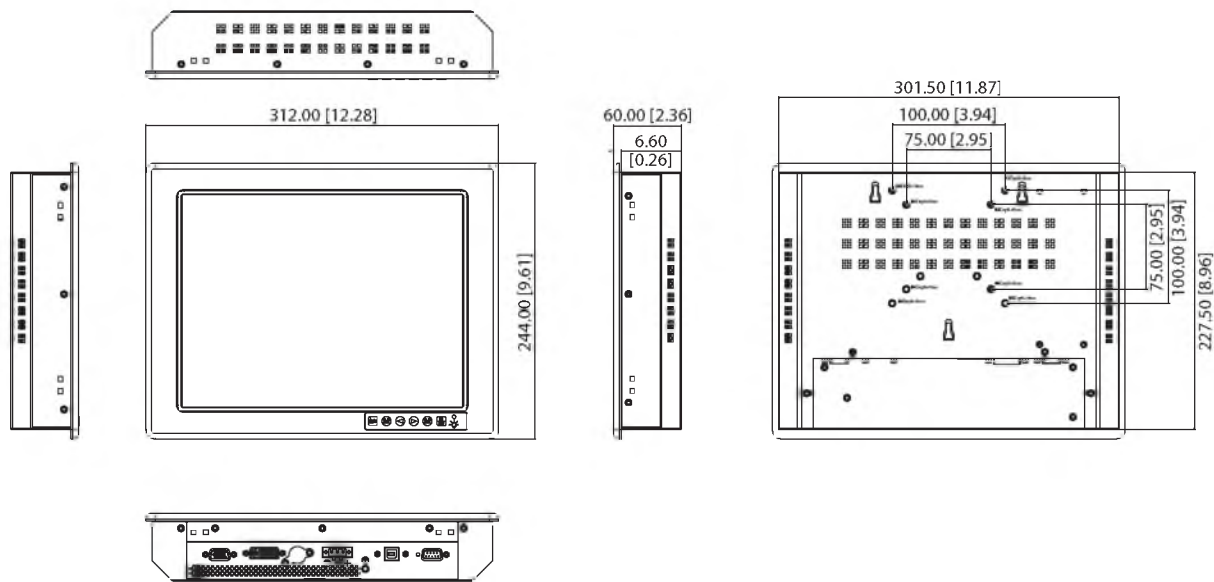
- **Operation Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Storage Temperature** -30 ~ 80° C (-22 ~ 176° F)
- **Humidity (Storage)** 10 ~ 95% non-condensing
- **Waterproof** Front panel is NEMA4/IP65 compliant
- **Shock** 11ms, 10G (Non Operating, Half Sine Wave)
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

### Ordering Information

- **FPM-3121G-X0AE** 12.1" SVGA Ind. Monitor with Wide Temp
- **FPM-3121G-R3AE** 12.1" SVGA Ind. Monitor w/ Wide Temp, Resistive TS
- **FPM-3121SR-R3AE** 12.1" SVGA Ind. Monitor w/ Sunlight Readable Display

## Dimensions

Unit: mm

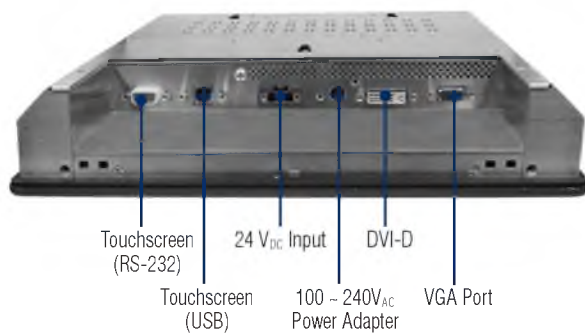


Panel Cut-out Dimensions: 312 x 224 mm (12.28" x 9.61")

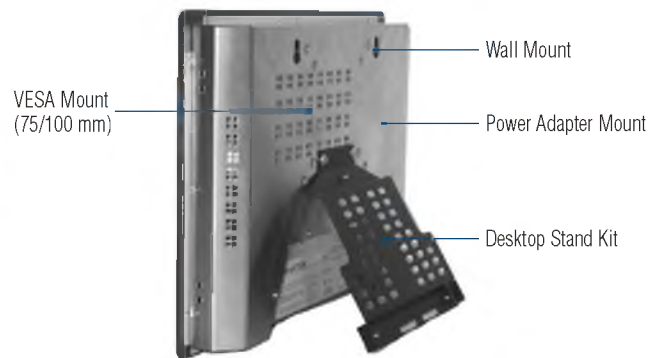
## Accessories

- FPM-2150G-SMKE Mounting kit for desktop stand & wall
- 1700001524 Power Cable US Plug 1.8 M
- 170203180A Power Cable UK Plug 1.8 M
- 170203183C Power Cable EU Plug 1.8 M
- 1702031836 Power Cable China/Australia Plug 1.8 M

## I/O View



## Mounting Method



# FPM-3151G

## 15" XGA Industrial Monitor with Resistive Touchscreen, Direct-VGA, DVI Ports, and Wide Operating Temperature



### Features

- 15" XGA TFT LCD with LED backlight
- Robust anodizing coated aluminum front bezel and stainless steel rear cover
- NEMA4/IP65 compliant front panel
- -20 ~ 60° C wide operating temperature
- Enhanced 5-wire resistive touch panel (FPM-3151G-R3AE)
- Direct VGA & DVI-D video input interface
- Combo RS-232 & USB interface for touchscreen function (FPM-3151G-R3AE)
- Supports 19 ~ 30 VDC input and 100-240 VAC input (optional AC adapter)
- OSD control pad with lockable function on front panel
- Anti-reflective screen with tempered glass (FPM-3151G-X0AE)
- Energy Star certification
- Supports stainless steel front panel (optional)
- Supports Panel, VESA, arm and desktop mounting

### Introduction

The FPM-3151G is a particularly rugged and reliable 15" XGA wide temperature industrial monitor for a variety of industry applications. Equipped with a hard anodized coating, stainless steel chassis, and -20 to 60° C operating temperature, it can satisfy demands in a wide range of harsh industrial applications. This model also features a strong capacitor, and enhanced 5-wire resistive touch and system isolation to enhance the reliability.

### Specifications

#### General

- **Button Controls** OSD control pad on front panel with lockable function
- **Certification** CE,FCC,UL,CB,BSMI,CCC
- **Dimension (W x H x D)** 422 x 310 x 70 mm
- **Enclosure** Front panel: Aluminum with hard anodizing coating  
Rear cover : Stainless steel
- **Mounting** Panel, wall, desktop, VESA arm, or 19" rackmount with optional mounting kit
- **Power Input** 19 ~ 30 VDC input  
DC Jack - Optional external 57 W power adapter, with 100 ~ 240 VAC input and 12 VDC @ 4.75 A output
- **Power Consumption** 12W
- **Video Port** VGA & DVI-D Port
- **Weight (Net)** 7.73 kg (17.04 lbs)

#### LCD Display

- **Display Type** XGA TFT LCD
- **Display Size** 15"
- **Max. Resolution** 1024 x 768
- **Max. Color** 16.2M (RGB 8-bits) or 262k colors (RGB 6-bits)
- **Viewing Angle (H/V°)** 160/140
- **Luminance (cd/m<sup>2</sup>)** 350
- **Backlight Life (hrs)** 50,000
- **Contrast Ratio** 700:1

#### Touchscreen (Optional)

- **Sensor** AMT
- **Driver** Penmount 6000
- **Type** 5-wire resistive with enhanced ITO film
- **Interface** USB & RS-232 (Combo)
- **Lifespan** 36 million with a silicone rubber R8 finger, writing rate is by 250g at 2 times/s
- **Light Transmission** > 80%
- **OS Support** Windows® 7, XP, Vista, XPe, CE, and Linux
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** Linearity

#### Environment

- **Operation Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Storage Temperature** -30 ~ 80° C (-22 ~ 176° F)
- **Humidity (Storage)** 10 ~ 95% non-condensing
- **Waterproof** Front panel is NEMA4/IP65 compliant
- **Shock** 11ms, 10G (Non Operating, Half Sine Wave)
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

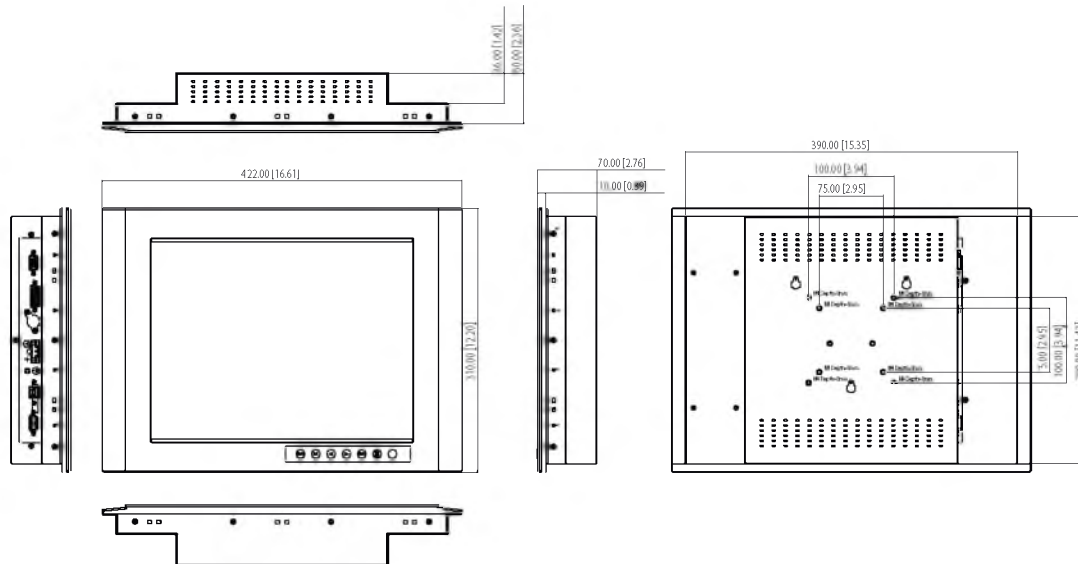
### Ordering Information

- **FPM-3151G-X0AE** 15" SVGA Industrial wide temp. monitor
- **FPM-3151G-R3AE** 15" SVGA Industrial wide temp. monitor w/resistive TS



## Dimensions

Unit: mm



Panel Cut-out Dimensions: 396 x 296 mm (15.6" x 11.6")

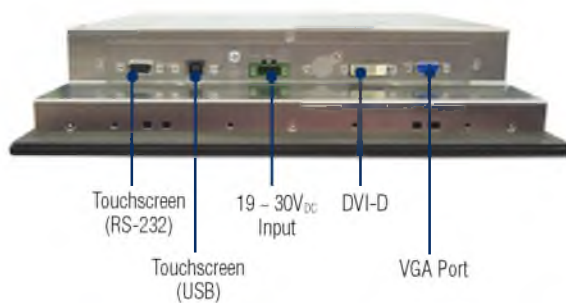
## Accessories

- FPM-3151G-RMKE Mounting kit for 19" industrial rack
- 1702002600 Power Cable US Plug 1.8 M
- 1702002605 Power Cable EU Plug 1.8 M
- 1702031801 Power Cable UK Plug 1.8 M
- 1702031836 Power Cable China/Australia Plug 1.8 M

## Rack Mount (FPM-3151G-RMKE)



## I/O View



## Mounting with DC Source



# FPM-3171G

## 17" SXGA Industrial Monitor with Resistive Touchscreen, Direct-VGA and DVI Ports



### Features

- 17" SXGA TFT LCD with resolution up to 1280 x 1024
- Robust design with stainless steel chassis and aluminum front panel
- Anti-reflective screen with tempered glass
- Supports stainless steel front panel (optional)
- OSD control pad on front panel
- Supports industrial 24-48 V<sub>DC</sub> power input (optional)
- Supports transreflective LCD technology (optional)
- Supports panel, wall, desktop, rack or VESA arm mounting
- Front panel is NEMA4/IP65 compliant

### Introduction

FPM-3171G is a 17" 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 front panel NEMA4/IP65 compliance.

### Specifications

#### General

- **Button Controls** OSD (Onscreen Display) control pad on front panel
- **Certification** BSMI, CCC, CE, FCC
- **Dimension (W x H x D)** 482 x 354 x 68 mm (18.9" x 13.9" x 2.7")
- **Enclosure** Front panel: Aluminum with coating  
Rear cover: Stainless steel chassis
- **Mounting** Panel, wall, desktop, VESA arm & 19" rackmount
- **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 port
- **Weight (Net)** 9.25 kg (20.39 lbs)

#### LCD Display

- **Display Type** SXGA TFT LCD
- **Display Size** 17"
- **Max. Resolution** 1280 x 1024
- **Max. Color** 16.2 M
- **Viewing Angle (H/V°)** 140/130
- **Luminance (cd/m<sup>2</sup>)** 300
- **Backlight Life (hrs)** 40,000
- **Contrast Ratio** 700 : 1

#### Touchscreen (Optional)

- **Sensor** ELO
- **Driver** ELTOUCH
- **Type** 5-wire Resistive
- **Interface** RS-232 or USB
- **Lifespan** 35 million touches at a single point
- **Light Transmission** 80% ±5
- **OS Support** DOS, Windows® 2000/XP/CE/Vista, Linux
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** Linearity

#### Environment

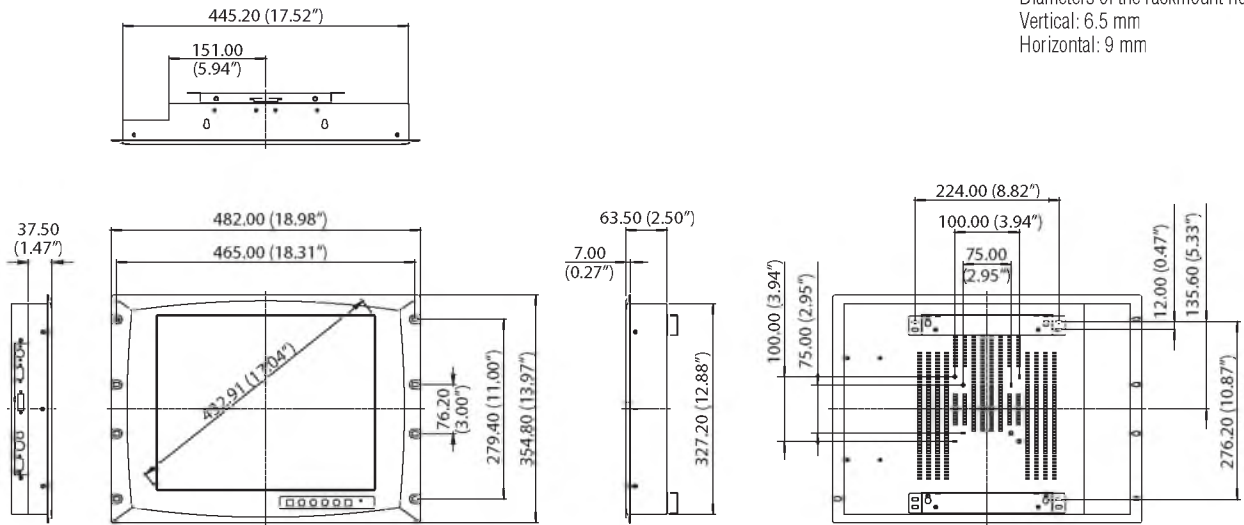
- **Operation Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Humidity (Storage)** 10 ~ 90% non-condensing
- **Waterproof** Front panel is NEMA4/IP65 compliant
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

### Ordering Information

- **FPM-3171G-XCE** 17" SXGA Ind. Monitor
- **FPM-3171G-RCE** 17" SXGA Ind Monitor w/Resistive TS (RS-232 & USB)
- **PWR-246E** DC to DC Converter w/24-48 V<sub>DC</sub> Power Input

## Dimensions

Unit: mm



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

Panel Cut-out Dimensions: 451 x 333 mm (17.75" x 13.38")

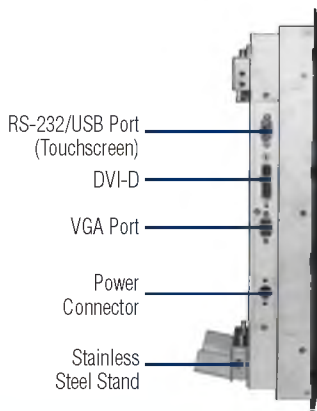
## Accessories

- 1702002600 Power Cable US Plug 1.8 M
- 1702002605 Power Cable EU Plug 1.8 M
- 1702031801 Power Cable UK Plug 1.8 M
- 1702031836 Power Cable China/Australia Plug 1.8 M

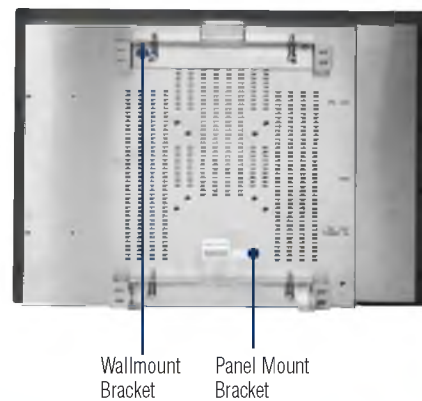
## Mounting with DC Source



## I/O View



## Rear View



# FPM-3171S

## 17" SXGA Industrial Monitor with Resistive Touchscreen, Direct-VGA and DVI Ports



### Features

- 17" SXGA TFT LCD with resolution up to 1280 x 1024
- Robust design with stainless steel chassis and front panel
- Anti-reflective screen with tempered glass
- OSD control pad on front panel
- Supports industrial 24-48 V<sub>DC</sub> power input (optional)
- Supports panel, wall, desktop, VESA arm mounting
- Front panel is NEMA4/IP65 compliant
- Front panel stainless steel with 316L level

### Introduction

FPM-3171S is a 17" 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 stainless steel with front panel NEMA4/IP65 compliance.

### Specifications

#### General

- **Button Controls** OSD (Onscreen Display) control pad on front panel
  - **Certification** BSMI, CCC, CE, FCC Class B, UL
  - **Dimension (W x H x D)** 462.8 x 378.4 x 63.9 mm (18.22" x 14.9" x 2.52")
  - **Enclosure** Front panel: Stainless steel with 316L level  
Rear cover: Stainless steel chassis
- \*Mounting holes on rear cover are designed for PWR-246E DC Source
- **Mounting** Panel, wall, desktop, VESA arm
  - **Power Input** DC Jack - Optional external 57 W power adapter, with 100 ~ 240 V<sub>AC</sub> input and 12 V<sub>DC</sub> @ 4.75 A output
  - **Power Consumption** 35 W + 20%
  - **Video Port** VGA & DVI-D port
  - **Weight (Net)** 13.1 kg (28.88 lbs)

#### LCD Display

- **Display Type** SXGA TFT LCD
- **Display Size** 17"
- **Max. Resolution** 1280 x 1024
- **Max. Color** 16.2 M
- **Viewing Angle (H/V°)** 170/160
- **Luminance (cd/m<sup>2</sup>)** 380
- **Backlight Life (hrs)** 50,000

- **Contrast Ratio** 1000 : 1

#### Touchscreen (Optional)

- **Sensor** ELO
- **Driver** ELO TOUCH
- **Type** 5-wire Resistive
- **Interface** RS-232 or USB
- **Lifespan** 35 million touches at a single point
- **Light Transmission** 80% ±5
- **OS Support** Windows XP, Vista, 7, XPe, CE and Linux
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** Linearity

#### Environment

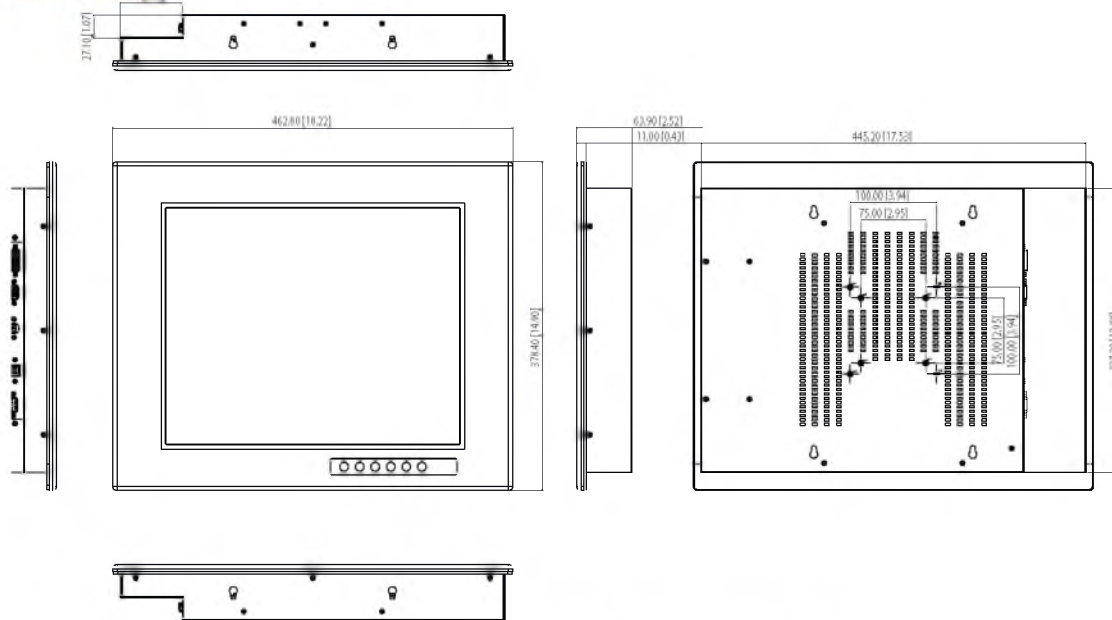
- **Operation Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Humidity (Storage)** 10 ~ 90% non-condensing
- **Waterproof** Front panel is NEMA4/IP65 compliant
- **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

### Ordering Information

- **FPM-3171S-R3AE** 17" SXGA Ind. Monitor w/Resistive TS (RS-232,USB)

## Dimensions

Unit: mm

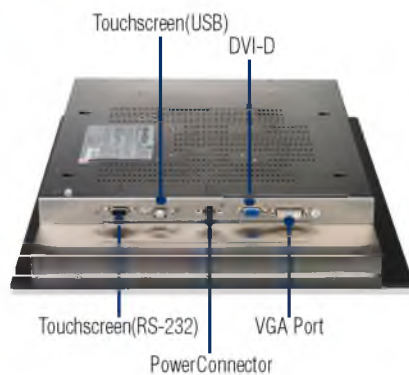


**Panel Cut-out Dimensions: 451 x 333 mm (17.75" x 13.11")**

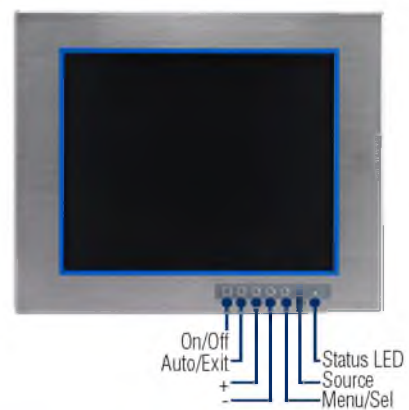
## Accessories

- PWR-246E Ind. DC to DC w/24-48 V<sub>DC</sub> 1.4-2.9A In 12 V<sub>DC</sub> 5A Out
- 1702002600 Power Cable US Plug 1.8 M
- 1702002605 Power Cable EU Plug 1.8 M
- 1702031801 Power Cable UK Plug 1.8 M
- 1702031836 Power Cable China/Australia Plug 1.8 M
- 1757002742 Adapter AC 90-264V 57W SPU63-105

## I/O View



## Front View



**По вопросам продаж и поддержки обращайтесь:**

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