

# FPM-3121G

**12.1" XGA Industrial Monitor with Resistive Touch Control, Direct VGA, DVI Ports, and Wide Operating Temperature**



## Features

- ③ 12.1" XGA TFT LED LCD with 50K backlight lifetime
- ③ Robust anodized aluminum-coated front bezel and stainless steel rear cover
- ③ Wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F)
- ③ Increased reliability with enhanced 5-wire resistive touch sensor
- ③ Anti-glare screen with tempered glass and IP65-certified front panel
- ③ Ground isolation protection for entire system
- ③ Supports VGA/DVI input, dual touch interfaces, and two power inputs
- ③ Front-lockable OSD keys with user-defined functions
- ③ IP65-rated front panel
- ③ Supports panel, VESA, wall, desktop, and stand mounting

## Introduction



The FPM-3121G is an extremely rugged and reliable 12.1" XGA industrial monitor aimed at diverse industrial applications. Equipped with a hard anodized-aluminum coating, stainless steel chassis, and wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F), FPM-3121G can withstand operation in a wide range of harsh industrial environments. This monitor also features enhanced 5-wire resistive touch control and overall ground isolation protection to enhance the system's reliability. Additionally, the FPM-3121G is equipped with lockable OSD keys on the front panel that control two user-defined function settings.

## Specifications

### General

- ③ **OSD Controls** OSD control pad on front side with lockable function  
Two user-defined contrast/brightness settings
- ③ **Certification** CE, FCC Class A, BSMI, CCC, UL, Energy Star
- ③ **Dimensions (W x H x D)** 312 x 224 x 60 mm (12.28 x 8.82 x 2.36 in)
- ③ **Enclosure** Front panel: Aluminum with hard anodized coating  
Rear cover: Stainless steel chassis with ground isolation protection
- ③ **Mount Options** Panel, VESA arm, wall, or desktop with optional mounting kit
- ③ **Power Input** Phoenix Jack: 24 V<sub>DC</sub> input  
DC Jack: 12 V<sub>DC</sub> input
- ③ **Power Consumption** 13W +20%
- ③ **Video Port** VGA & DVI-D Port
- ③ **Weight (Net)** 4.07 kg (8.975 lbs)

### LCD Display

- ③ **Display Type** XGA TFT LCD
- ③ **Backlight Type** LED
- ③ **Display Size** 12.1"
- ③ **Max. Resolution** 1024 x 768
- ③ **Max. Color** 16.2M (RGB 8-bit)
- ③ **Viewing Angle (H/V °)** 160 / 140
- ③ **Luminance (cd/m²)** 600
- ③ **Operation Life** 50,000 hr
- ③ **Contrast Ratio** 700:1

### Touchscreen

- ③ **Driver** Penmount 6000
- ③ **Type** 5-wire resistive with enhanced ITO film
- ③ **Interface** USB & RS-232 (Combo)
- ③ **Lifespan** 36 million with a silicone rubber of R8 finger, writing rate is by 250g at 2 times/s
- ③ **Light Transmission** > 80%
- ③ **OS Support** Windows XP, 2000, Vista, 7, 8, 10, XP/7/8/10 Embedded, CE, Linux
- ③ **Power Consumption** +5 V @ 100 mA
- ③ **Touch Resolution** Linearity

### Environment

- ③ **Operating Temperature** -20 ~ 60 °C (-4 ~ 140 °F)
- ③ **Storage Temperature** -30 ~ 80 °C (-22 ~ 176 °F)
- ③ **Humidity (Storage)** 90% @ 50 °C non-condensing
- ③ **IP Rating** Front panel is IP65 compliant
- ③ **Shock** 11ms, 10G (Non Operating, Half Sine Wave)
- ③ **Vibration** 5 ~ 500 Hz, 1 Grms (Operating, Random)

## Ordering Information

- ③ **FPM-3121G-R3BE** 12.1" SVGA Ind. Monitor w/ Wide Temp, Resistive TS

## Optional Accessories

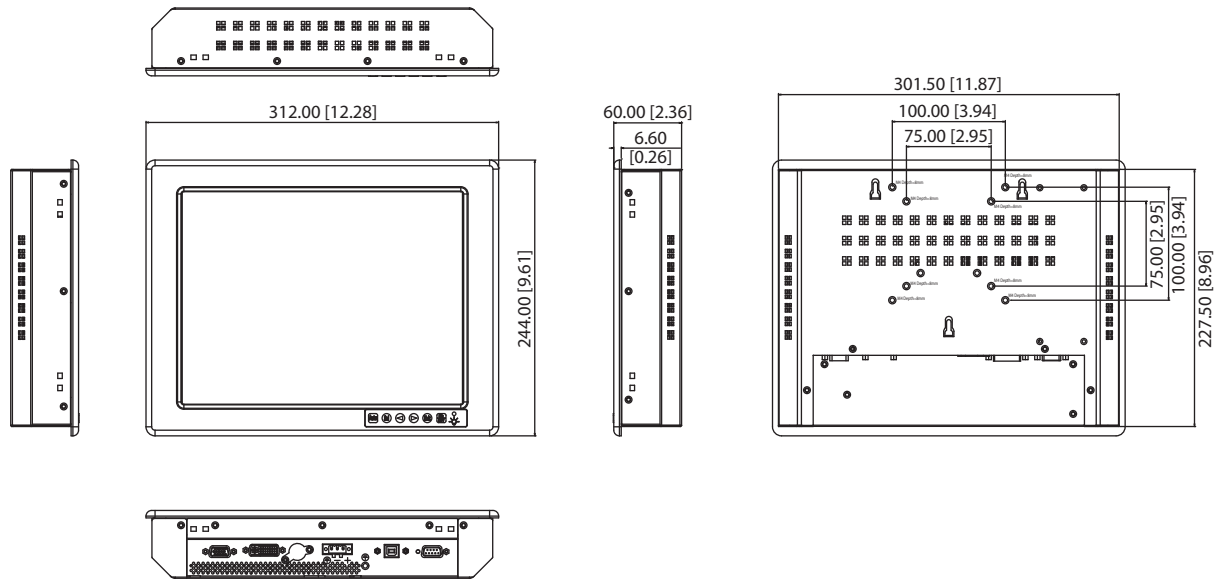
- ③ **FPM-1000T-SMKE** Desktop/Wall Mounting kit for FPM series
- ③ **1702002600** Power Cable US Plug 1.8 M
- ③ **1702031801** Power Cable UK Plug 1.8 M
- ③ **1702002605** Power Cable EU Plug 1.8 M
- ③ **1700000596-11** Power Cable China/Australia Plug 1.8 M
- ③ **PWR-247-DE** Adapter 100-240V 60W 24V 2.5
- ③ **FPM-3000G-ADKE** Adapter bracket for FPM-3000 12"

All product specifications are subject to change without notice.

## FPM-3121G

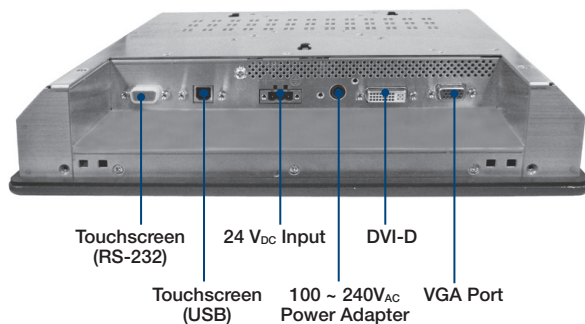
### Dimensions

Unit: mm [inch]

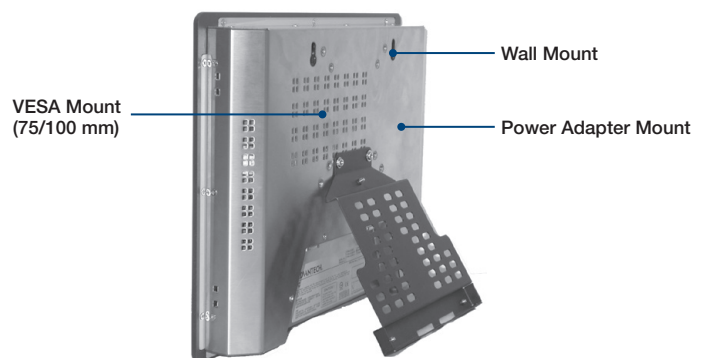


Panel Cutout Dimensions: 303.5 x 229.5 mm (11.95 x 9.04 in)

### I/O View



### Mounting Method



### Packing list

Item	Part No.	Description	Qty
Cable lock for adapter	1960049101N000	BRACKET PLUG FOR FPM-3121G	1
Cable lock for adapter	1930001361	Screw M3x4L S/S D=5 H=1.2 (2+) ST Ni NK	8
Clamper	1962055040	CLAMPER PPC-55 M1632611 A2	8
Clamper screw	1935042520	Screw M4*25L R/S D=8.3 H=2.5 + ST BZn	8
GND cable	1703011001-11	A Cable G-TEM. 100CM C=GR/Y PPC-55	1
VGA cable	1700021332-01	M CABLE D-SUB 15P(M)/D-SUB 15P(M) 180CM VESA B1	1
USB touch Cable	1700017851-01	M Cable USB-A(M)/USB-B(M) 180CM black color	1
RS232 cable	1700091800	M Cable D-SUB 9P(M)/D-SUB 9P(F) 183CM	1