FPM-3121G

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



Features

- 12.1" XGA TFT LED LCD with 50K backlight lifetime
- Robust anodized aluminum-coated front bezel and stainless steel rear cover
- Wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F)
- Increased reliability with enhanced 5-wire resistive touch sensor
- Anti-glare screen with tempered glass and IP65-certified front panel
- Ground isolation protection for entire system
- Supports VGA/DVI input, dual touch interfaces, and two power inputs
- Front-lockable OSD keys with user-defined functions
- IP65-rated front panel
- 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-3151G 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

- **OSD 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
- **Dimensions (W x H x D)** 312 x 224 x 60 mm (12.28 x 8.82 x 2.36 in)
- **Enclosure** Front panel: Aluminum with hard anodized coating
  Rear cover: Stainless steel chassis
  with ground isolation protection
- **Mount Options** Panel, VESA arm, wall, or desktop with optional mounting kit
- **Power Input** Phoenix Jack: 24 V_{DC} input
  DC Jack: 12 V_{DC} input
- **Power Consumption** 13W +20%
- **Video Port** VGA & DVI-D Port
- **Weight (Net)** 4.07 kg (8.975 lbs)

LCD Display

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

Touchscreen

- **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 XP, 2000, Vista, 7, 8, 10, 11, XP Embedded, CE, Linux
- **Power Consumption** +5 V @ 100 mA
- **Touch Resolution** Linearity

Environment

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

Ordering Information

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

Optional Accessories

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

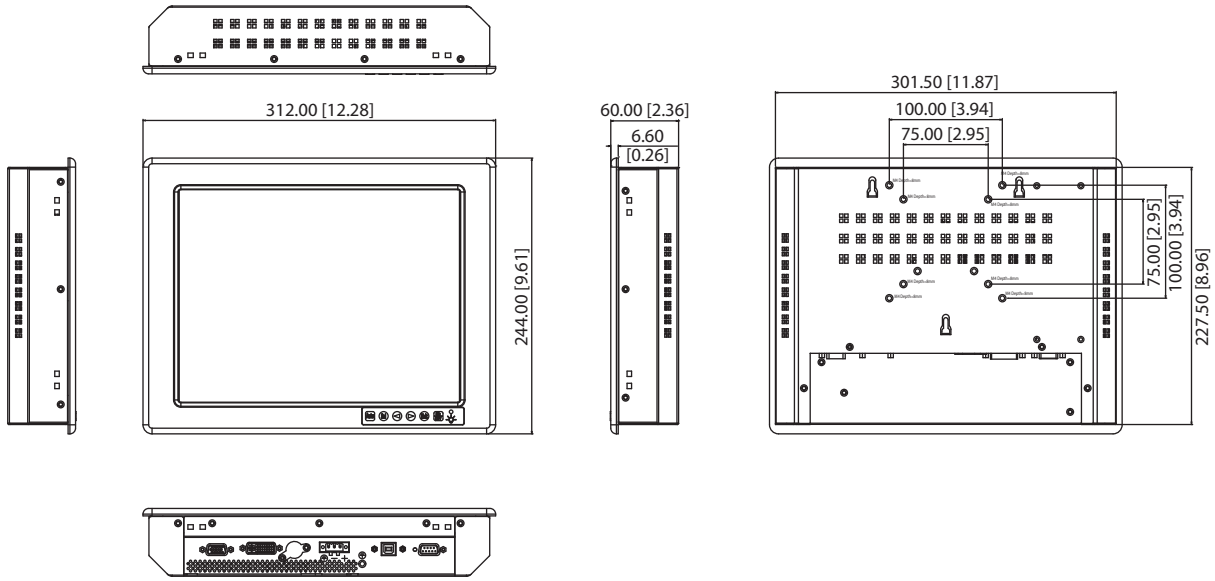
Mounting kit

- **FPM-1000T-SMKE** Desktop Mounting kit for FPM series
- **PPC-174T-WL-MTE** Wall mount kit A800B
- **PPC-ARM-A03** ARM VESA Standard (A-CLEVER)
- **PPC-STAND-A1E** Stand mounting kit

All product specifications are subject to change without notice.

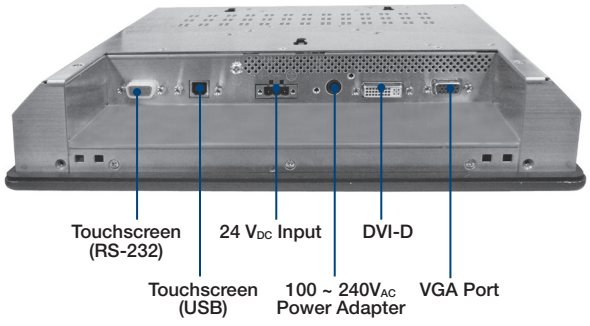
Dimensions

Unit: mm [inch]

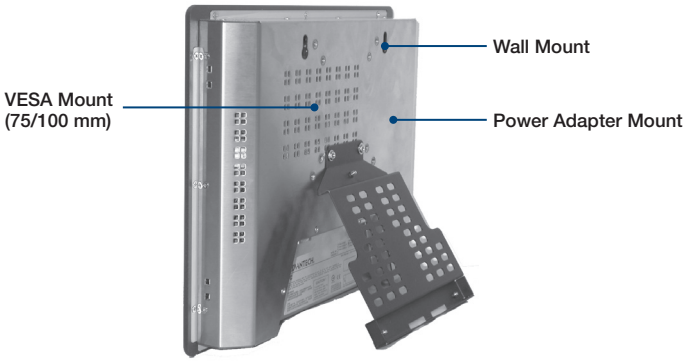


Panel Cutout Dimensions: 303.5 x 229.5 mm (11.95 x 9.04 in)

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	1700021332-11	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