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,7,8/8.1,10 , XP/7/8/10
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)
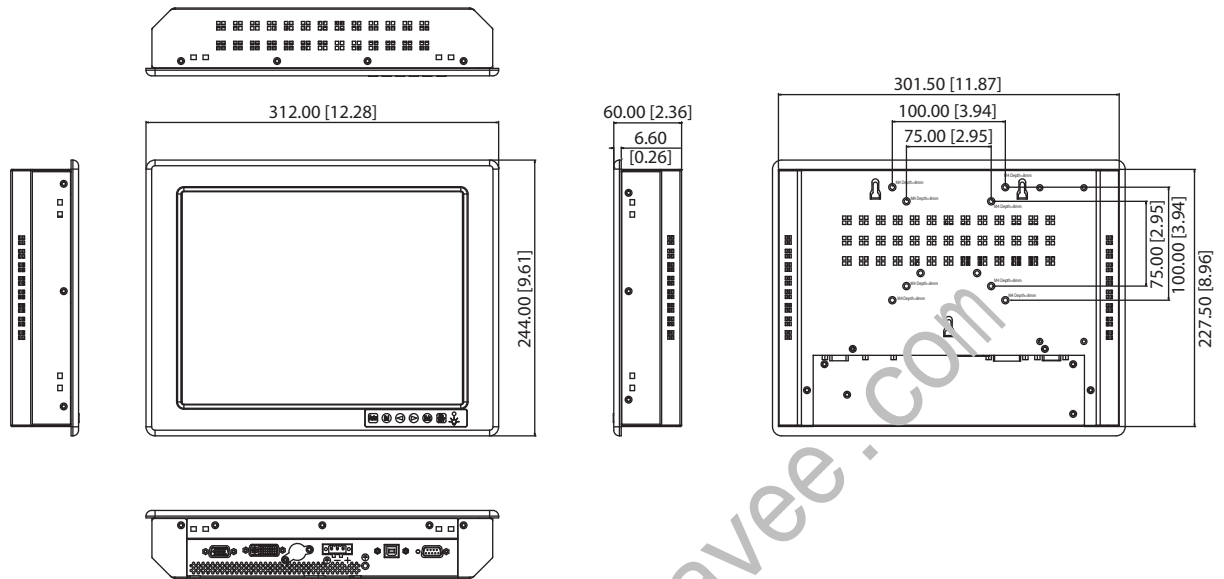
Ordering Information

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

Optional Accessories

- **FPM-1000T-SMKE**   Desktop/Wall Mounting kit for FPM series
- **1702002600**   Power Cable US Plug 1.8 M
- **1702031801**   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
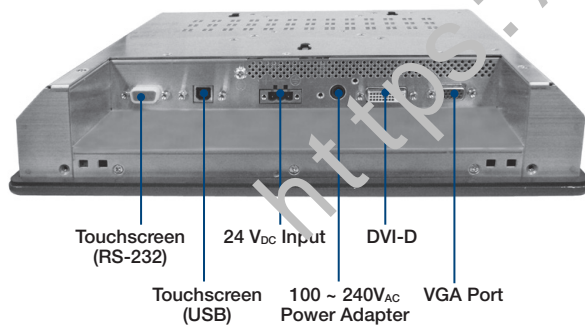- **FPM-3000G-ADKE**   Adapter bracket for FPM-3000 12"

Last updated: 29-Dec-2022
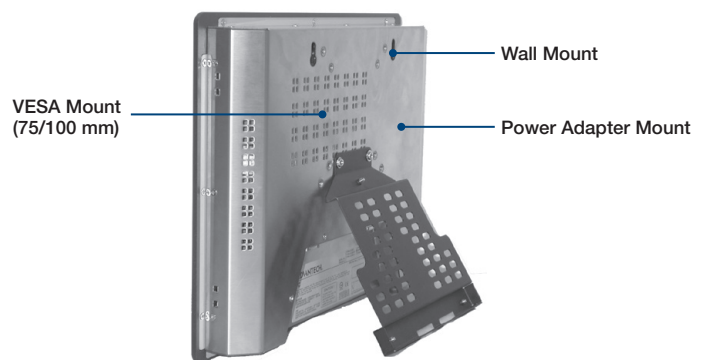
Dimensions

Unit: mm [inch]

312.00 [12.28]

244.00 [9.61]

60.00 [2.36]

6.60 [0.26]

301.50 [11.87]

100.00 [3.94]

75.00 [2.95]

75.00 [2.95]

100.00 [3.94]

227.50 [8.96]

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

I/O View

Touchscreen (RS-232)

Touchscreen (USB)

24 V$_{DC}$ Input

100 ~ 240V$_{AC}$ Power Adapter

DVI-D

VGA Port

Mounting Method

Wall Mount

VESA Mount (75/100 mm)

Power Adapter Mount

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