# 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)
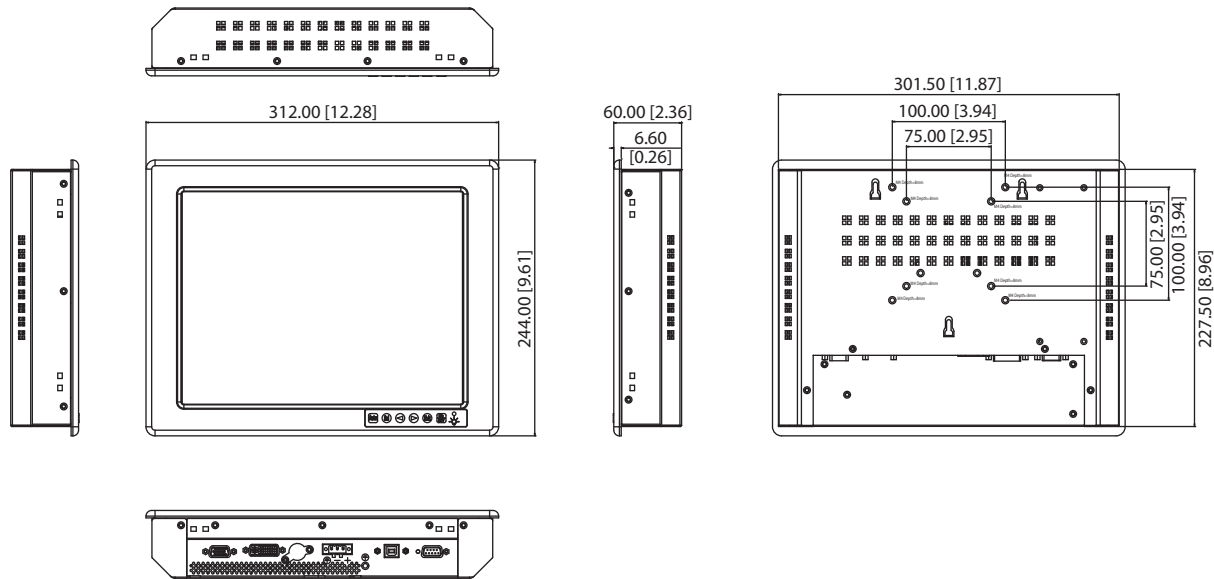
## Ordering Information

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

## Optional Accessories

- **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
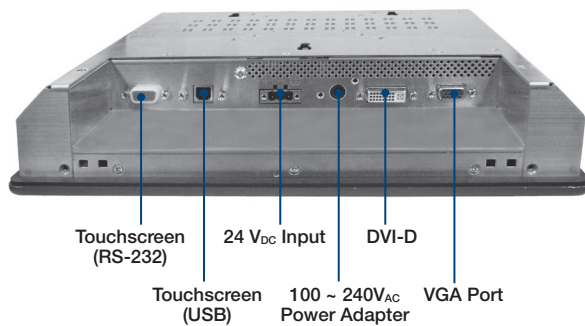- **FPM-3000G-ADKE** — Adapter bracket for FPM-3000 12"
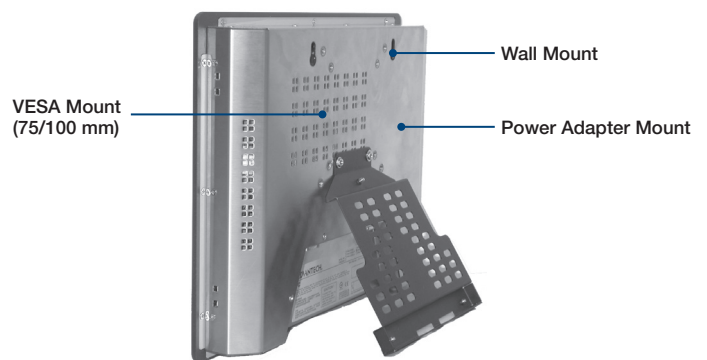
## Dimensions

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 |