FPM-3121G

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

Features

- 12.1" SVGA 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

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Introduction

The FPM-3121G is an extremely rugged and reliable 12.1" SVGA 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

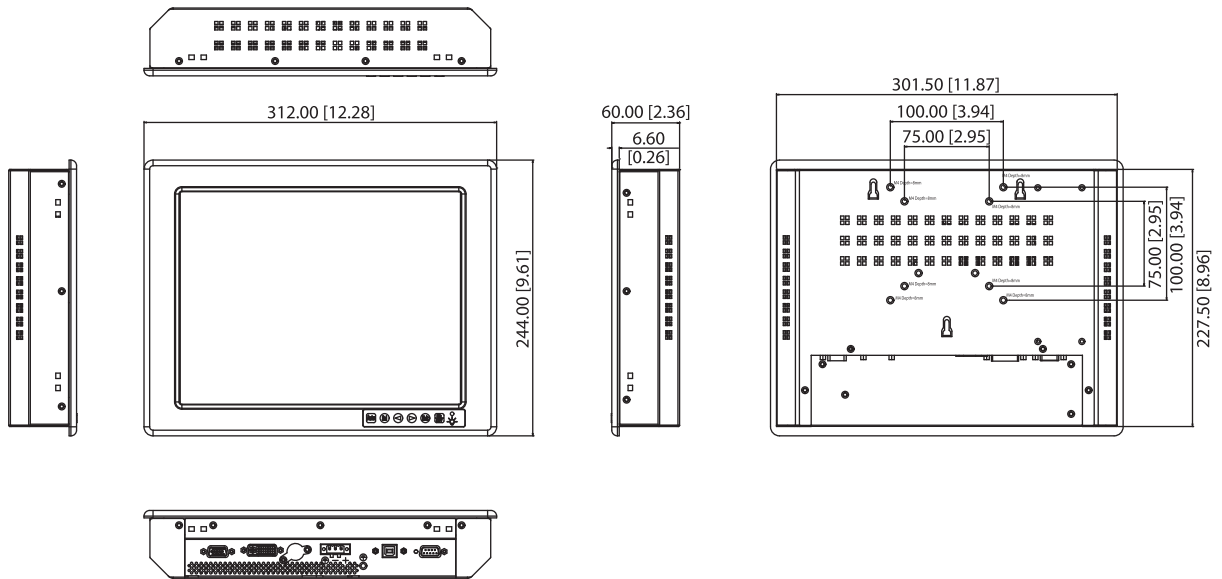### Environment

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

Last updated: 27-Jun-2018

Dimensions

Unit: mm [inch]

301.50 [11.87]
100.00 [3.94]
75.00 [2.95]

312.00 [12.28]
60.00 [2.36]
6.60 [0.26]

244.00 [9.61]
75.00 [2.95]
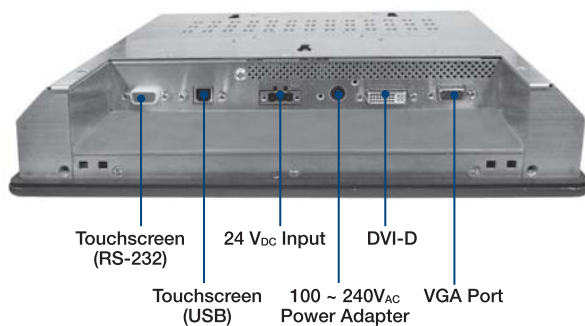100.00 [3.94]
227.50 [8.96]

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

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
- **96PSA-A60W12V1-1**   Adapter 100-240V 60W 12V 5A
- **96PSA-A60W24T2**   Adapter 100-240V 60W 24V 2.5
- **FPM-3000G-ADKE**   Adapter bracket for FPM-3000 12"

I/O View

Touchscreen (RS-232)
24 V$_{DC}$ Input
DVI-D
Touchscreen (USB)
100 ~ 240V$_{AC}$ Power Adapter
VGA Port

Mounting Method

Wall Mount
VESA Mount (75/100 mm)
Power Adapter Mount