# FPM-3220

**Industrial 12.1" Flat Panel Monitor with Function Membrane Key and Direct-VGA Port**

## Features

- 12.1" SVGA TFT LCD with resolution up to 800 X 600
- Standard RGB (VGA) interface for the display
- Display with multi-scan function supports  SVGA, VGA, VGA-Text
- Front accessible display on/off switch
- OSD key on back cover
- 60 data-entry keys, one with 10 function keys and 10 programmable macro function keys
- Optional FDD and CD-ROM installation housing
- Stainless steel chassis
- NEMA4/IP65-compliant aluminum front panel
- Rack, panel or wall mount
- Supports VESA arm

## Introduction

The FPM-3220 control panel series from  Advantech incorporates a LCD control panel with 64 data-entry keys, 10 function keys, 10 unique programmable macro keys and a 12.1" SVGA 800 x 600 TFT LCD screen. The strong membrane key function gives the FPM-3220  powerful panel programming benefits like standard workstations, but no deep space problems. Equipped with a direct VGA interface, the FPM-3220 can connect to any PC Box over long distances without the wiring and cabling limits faced by traditional bulky workstations. Optional front FDD access design gives users the ability to easily retrieve and install data. The FPM-3220 is a perfect and cost effective control panel selection with PCs for machine builders like packaging, cutting, CNC, and production line control.

## Specifications

- **Display Type**            12.1" color TFT LCD
- **Display Resolution**      SVGA (800 x 600)
- **Display Control**         Front accessable display on/off switch and OSD (on screen display) key on back cover
- **Display Interface**       Standard analog RGB (VGA) 15 pin connector
- **Membrane Keypads**        One with 60 data-entry keys, one with 10 function keys and 10 programmable macro function keys
- **Keyboard/mouse Connector**  Two 6-pin PS/2 keyboard/mouse connectors available, One on front panel and the other on back chassis
- **Front Panel**             Aluminum, NEMA4/IP65 compliant
- **Mounting**                Rack, panel, wall mount, VESA arm
- **Power**                   External 48 W power adapter, with AC 100 V ~ 230 V input and DC +12 V @ 4 A output
- **Disk Drive Housing Kit (Optional)**  Supports one slim 3.5" FDD and one slim CD-ROM
- **Operating Temperature**   0 ~ 50° C (32 ~ 122° F)
- **Relative Humidity**       5 ~ 85 % @ 40° C, non-condensing
- **Storage Temperature**     -20 ~ 60° C (-4 ~ 140° F)
- **Storage Humidity**        5 ~ 95 % non-condensing
- **Dimensions (WxHxD)**      482 x 266 x 63 mm (19.0" x 10.5" x 2.5")
- **Net Weight**              4.2 kg (9.3 lbs)
- **CE, CCC, FCC, and BSMI compliant**

### Touchscreen (Optional)

- **Type**                8 wire, analog resistive
- **Resolution**          Continuous
- **Light Transmission**  75%
- **Controller**          RS-232 interface
- **Power Consumption**   +5 V @ 200 mA
- **OS Support**          MS-DOS, Windows® 3.1/95/98/NT/2000
- **Lifespan**            1 million touches at a single point

### LCD Display
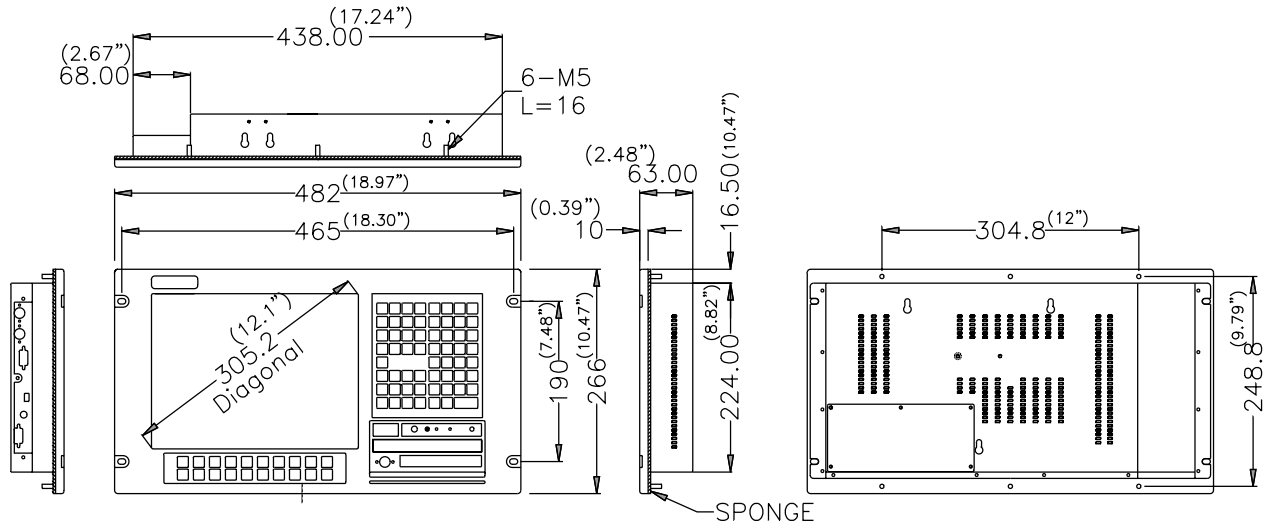
- **Display Type**         SVGA TFT LCD
- **Display Size**         12.1"
- **Max. Colors**          262 K
- **Max. Resolution**      800 x 600
- **Viewing Angle**        90° (H), 40° (V)
- **Luminance**            100 cd/m²
- **Storage Temperature**  -20 ~ 60° C (-4 ~ 140° F)
- **Storage Temperature**  0 ~ 50° C (32 ~ 122° F)
- **Backlight Lifetime**   20,000 hrs
- **Contrast Ratio**       150 : 1 (typ)

## Ordering Information

- **FPM-3220T**        Industrial control panel with keypad, VGA interface 12.1" LCD display and AC 100~230 V input 48W power adapter
- **FPM-3220T-T**      FPM-3220T with analog resistive touchscreen (RS-232 interface)
- **FPM-3220 Storage** FDD and CD-ROM housing kit for FPM-3220 (max. extended length 60 cm.)

## Dimensions

*Unit: mm*



*Cut-out dimension: 444 x 230 mm (17.5" x 9.1")*

## Side View



Power ON/OFF

Power connector

VGA port

RS-232 port
(Touch screen)

Last updated : January 2005