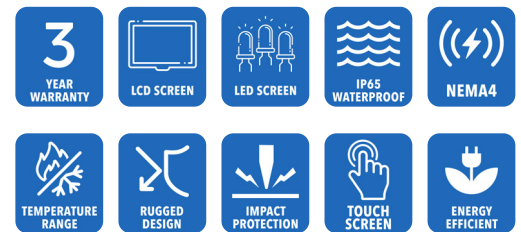# 12.1" Industrial Grade NEMA 4 (IP65) Panel Mount LCD Flat Panel Display

## Model PM-121

Model PM-121 is a Second Generation model and is a high-quality industrial LCD system offering NEMA 4 (IP65) level protection at the front bezel. The product boasts a 12 display size with 1024 x 768 pixels, 500 NITS brightness (long-life LED backlight) and 700:1 contrast ratio. The unit is constructed a black powder-coated gasket-sealed front bezel with "bolt" mounting.

This rugged model offers exceptional shock and vibration safeguards and its front bezel and rear housing are constructed of high grade aluminum which has been dipped in zinc-chromate and then finished with a resilient corrosive resistant thermal-set black powder-coating. This product is very ruggedly built, features long-life displays with no scheduled End Of Life. Incorporating the latest LCD and control electronics you are assured a display the will perform reliably in harsh industrial environments. Many configurations available, including our Sun Readable SRD models.

| | | | | |
|---|---|---|---|---|
| **3 YEAR WARRANTY** | **LCD SCREEN** | **LED SCREEN** | **IP65 WATERPROOF** | **NEMA4** |
| **TEMPERATURE RANGE** | **RUGGED DESIGN** | **IMPACT PROTECTION** | **TOUCH SCREEN** | **ENERGY EFFICIENT** |

HDMI       VGA

DVI       Display Port

# Technical Specifications

## General

**Model:**
PM-121

**Display Size**
12.1"

**Display Type**
Long-Life Industrial Grade Active Matrix TFT LCD

**Backlight Technology**
Solid State, Long-Life LED
CLICK HERE for more information

**Optical Films Enhancements**
Optical Bonding

**Brightness**
500 nits (cd/m2)

**Dimming Capabilities**
Front Keypad, Can Be Configured for Rear Controls (Optional)

**Contrast Ratio**
700:1

**Aspect Ratio**
4:3

**Resolution**
1024 x 768 (XGA) Native

**Colors Supported**
16.2M

**Viewing Angles**
-80° to 80° Horizontal
-80° to 80° Vertical

**Video Inputs**
DVI, HD15 (VGA), HDMI, DisplayPort

**User Controls**
Front Keypad (can also be configured for rear controls, or Manual Full-Range Dimming Turn Pot, Automatic Dimming Sensor, or Remote Dimming), Can be repositioned on the rear of the enclosure

**Optical Bonding**
Optical Bonding

**Protective Window**
3mm Hardened Protective Window, for more information CLICK HERE (also available various optional Touch Screen Technologies)

**Power Types**
90 VAC to 264 VAC; 12V DC; 24V DC; 9 to 36V DC; or 20 to 53V DC

## Physical Attributes

**Front Bezel**
High Grade 6061T Aluminum, Electrochemical Anodized for added Corrosion Resistance, Black Textured Finish per Military Standards FED-STD-595

**Rear Enclosure**
High Grade 6061T Aluminum, Electrochemical Anodized for added Corrosion Resistance, Black Textured Finish per Military Standards FED-STD-595

**Panel Mounting**
10-32 Stainless mounting studs, 1/2" exposed thread

**Overall Dimensions**
13.13 x 11.08 x 1.99 in
(335.50 x 281.43 x 50.75mm)

**Cutout**
10.5 x 12.5 in (266.7 x 317.5mm)

**Weight**
TBD

**Sealability**
Gasket-Sealed

**Sunlight Readability**
The latest optical technology for high ambient light conditions

**Warranty Period**
3 Years

# Environmental

**Sunlight Readability**
The latest optical technology
for high ambient light conditions

**Operating Temperature Range**
-30°C to 85°C (-22°F to 185°F)

**Storage Temperature**
-40°C to 85°C (-40°F to 185°F)

**Humidity**
5% to 95% RH (non-condensing)

**Shock**
Operating: 30g's, 11ms, ½ Sine

**Vibration**
1g RMS 20-500Hz

**Fasteners**
Vibration-proof, self-locking,
fastener system

**EMI**
FCC Class B pursuant to Part 15
of the FCC Rules

**Agency Compliance**
CE

**Altitude**
Operating 0 to 10,000 ft.
Storage 0 to 40,000 ft.

**RoHS Compliant**
Yes

**Rating**
NEMA 4 / IP65

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# Additional Add-On Options

**Touch Screen Technology**

**Resistive**

**Hardened Armored Touch
Technology**

**Video Input Options**
DVI, HD15 (VGA), DisplayPort,
and/or HDMI

**Custom Video Modes**

**Extended Operational
Temperature Ranges**

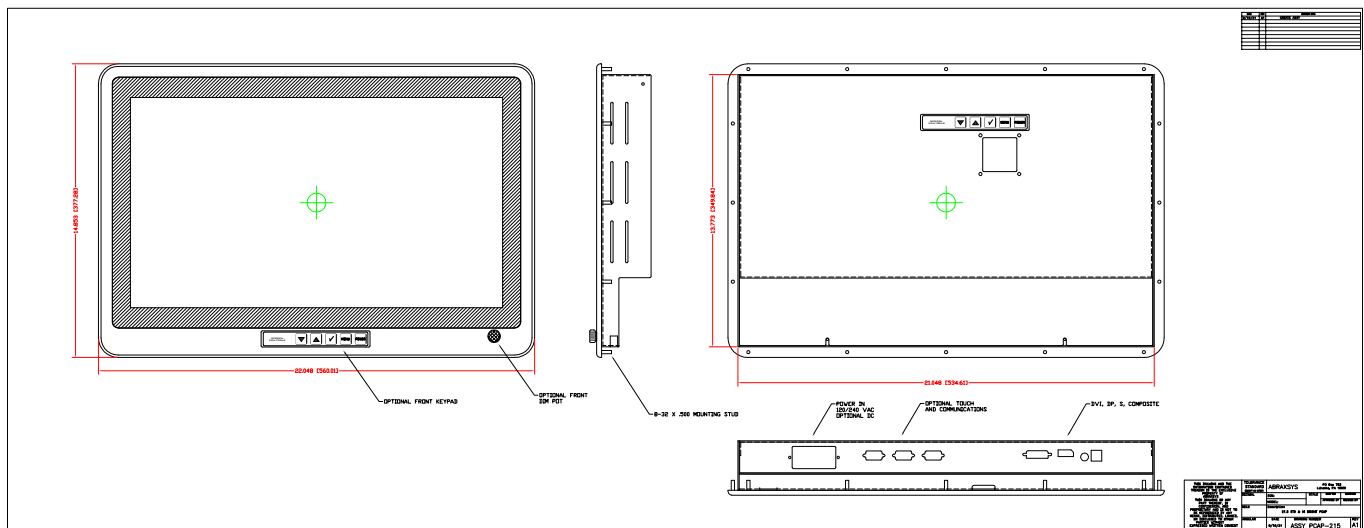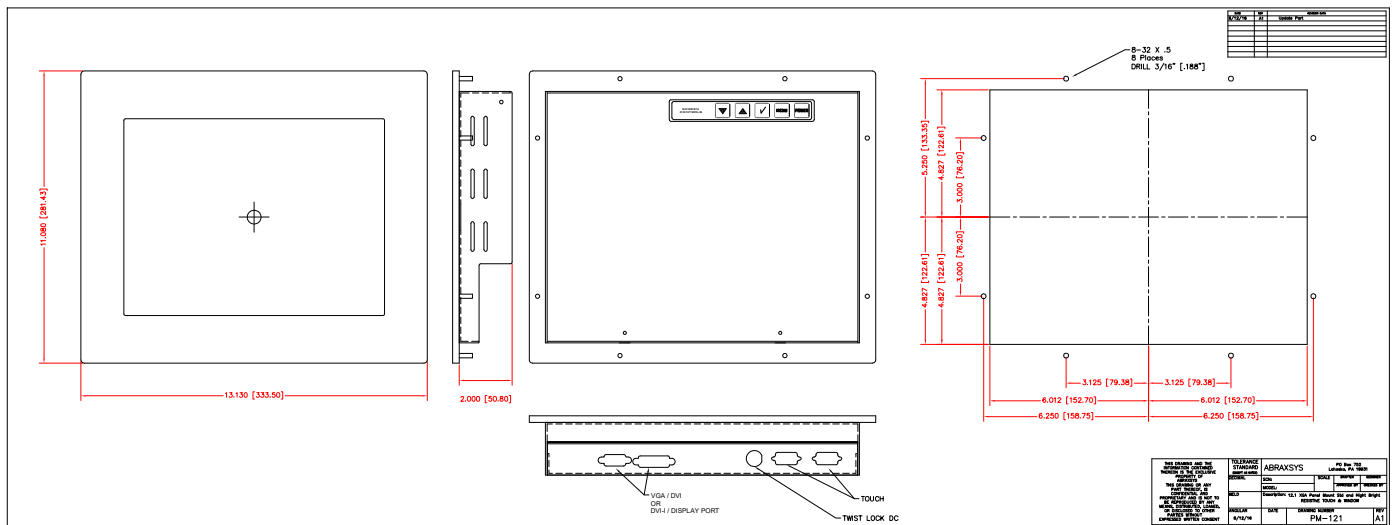**Conformal Coating of all
Internal Circuit Boards**

**Private Labeling Services**

**Customization Services**

**NEMA 4X (IP66) Stainless
Steel Front Bezel**

**Sunlight Readable Model
Available**

# Mechanical Drawings



*These technical and mechanical resources are subject to change without notice.*