



**AbraxSys**  
RUGGED LCD SOLUTIONS

## 8.4" Sunlight Readable Industrial Grade VESA Mount LCD Flat Panel Monitor

**Model VM-084**

Model VM-084 LCD monitor utilizes the latest 8.4" XGA TFT Flat Panels. AbraxSys has added a versatile Analog-Digital interface board, backlight inverter and OSD controls. All elements, including a toughened glass protective screen have been packaged in a compact, rugged metal housing. The result is a flexible Display Head, ready for integration as part of any system; as an analog monitor, or a touchscreen driven human-machine interface.

This rugged model offers exceptional shock and vibration safeguards and its housing is 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](#).



# Technical Specifications

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## General

**Model:**  
VM-084

**Display Size**  
8.4"

**Display Type**  
Long-Life Industrial Grade LCD

**Backlight Technology**  
Solid State, Long-Life LED –  
[CLICK HERE](#) for more information

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

**Dimming Capabilities**  
Multi-Functional User Keypad

**Contrast Ratio**  
700:1

**Aspect Ratio**  
4:3

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

**Colors Supported**  
262,144

**Viewing Angles**  
-80° to 80° Horizontal  
-60° to 80° Vertical

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

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

**Optical Bonding**  
Optional Optical Bonding of Front  
Protective Glass or Touch Screen  
Window (for more information  
about its benefits [CLICK HERE](#))

**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, 20 to 53V DC

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## Physical Attributes

**Front Bezel**  
Stainless Steel

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

**Panel Mounting**  
VESA 75 via 10-32 x .75 studs

**Overall Dimensions**  
6.880 x 8.24 x 1.948 in  
(174.76 x 209.30 x 49.48mm)

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

**Warranty Period**  
3 Years

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## Environmental

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

**Operating Temperature Range**  
-30°C to 70°C (-22°F to 158°F)

**Storage Temperature**  
-30°C to 80°C (-22°F to 176°F)

**Humidity**

5% to 95% RH (non-condensing)

**Shock**

Operating: 30g's, 11ms, ½ Sine,  
Non-Operating: 200G, 2ms, half  
sine wave, 1 time for ± X, ± Y, ± Z.

**Vibration**

Operating: 1g RMS 20-500Hz,  
Non-Operating: 1.5G, 10 ~ 300 Hz,  
10min/cycle, 3 cycles each X, Y, Z

**Fasteners**

Vibration-proof, self-locking,  
fastener system which will not  
loosen regardless of seat torque.  
Designed to help make products  
safer, lower warranty costs  
and prolong equipment life by  
eliminating vibration; increased  
safety, reliability, operating life  
and reduced maintenance.

**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 12 / IP52

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## Additional Add-On Options

**Touch Screen Technology****Resistive****Multi-Touch Up to 10-Point PCAP****Hardened Armored Touch  
Technology****Video Input Options**

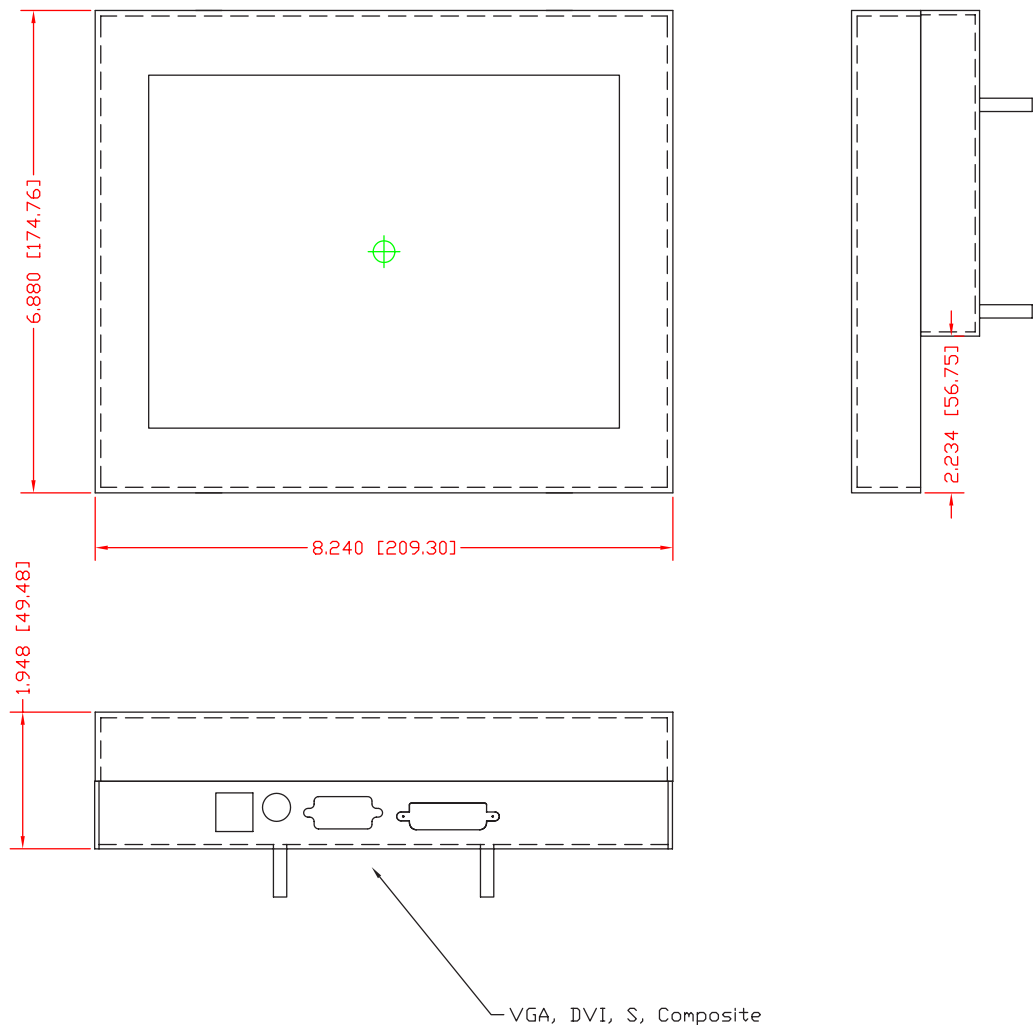
DVI, HD15 (VGA), DisplayPort,  
and/or HDMI

**Power Type Choices**

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

**Custom Video Modes****Customization Services****Extended Operational  
Temperature Ranges****Conformal Coating of all  
Internal Circuit Boards****Private Labeling Services****Sunlight Readable  
Model Available**

# Mechanical Drawings



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



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