



12.1" Panel Mount ThermalCare High Bright NEMA 4 Display



This NEMA 4 high bright, low power monitor can easily be read in all lighting conditions, including high ambient light, direct sunlight and at night, which makes it perfect for use in a multitude of vertical markets. The LCD provides a thermal management system and optional auto dimming.

SPECIFICATIONS

FEATURES

- ◆ NEMA 4
- ◆ High Bright, Low Power
- ◆ Readable in Sunlight, High Ambient Light and Night Time Conditions
- ◆ Thermal Management System

Display Panel

12.1" SVGA TFT

Active Display Area

246mm (h) x 184.5mm (v)

Pixel Format

800 x 600

Resolution

SVGA / 6 bit color

Number of Colors

262K

Viewing Angle

Horizontal: 60° min 70° typ (a) & (b)
 Vertical: 35° min 50° typ (a) & 55° min 60° typ (b) (refer to fig. 1 in mechanical drawing)

Screen Brightness1700 cd/m² typical, 1500 cd/m² min**Contrast Ratio**

300 typical (luminance with all pixels white/luminance with all pixels black - refer to fig. 3 in mechanical drawing)

Uniformity

80% min, >90% typ (uniformity = (Lmin/Lmax see fig. 2 in mechanical drawing)

Uniformity Modulation

10% min, <5% typ (uniformity modulation = (Lmax-Lmin) / (Lmax+Lmin))

MTBF (excluding lamps)

50,000 hours typical

Lamp Life

50,000 hours typical at 25°C to 50% (full brightness)

Power Consumption

50 W, max (results obtained with inverter at 84% efficiency; results may vary with other inverters)

Power Source

12VDC w/ AC Brick

Temperature (Normal Operation)

Range with Dry Bulb: 0 to 50°C

Max. Temp Change Rate: 10°C per hour

Relative Humidity: 10 to 90% NC

Max Humidity Change Rate: 10% per hour

Sudden Temp. Change: 12°C

Max Dew Point Temp: 26° C

Temperature (Extreme Operation)

Range with Dry Bulb: 0 to 50°C

Max. Temp Change Rate: 15°C per hour

Relative Humidity: 5 to 90% NC

Temperature (Other)

Storage: -10 to 50°C

Transit: -40 to 60°C

Humidity (Other)

Storage: 10 to 90%

Transit: 5 to 95%

Barometric Pressure

Operating and Storage: 105 x 10³ Pa, sea level to 70 x 10³ Pa (9850 ft)

Dimensions

11.68" (H) x 15.04" (W) x 4.10" (D)

296.57mm (H) x 382.02mm (W) x

104.01mm (D)

Optional Touch Screen

Resistive or Capacitive

Compliant With:

CSA Standard for Safety of IT Equipment (C22.2 No. 60950-1) + UL60950-1

IEC 60950-1 & EN 60 950-1 Safety of Information Technology Equipment including Electrical Business Equipment

RFI Radiated Emission to EN55022 (Latest Revision) Class B

RFI Radiated Susceptibility EN61000-4-3: (Latest Revision) 6V/m with 1kHz, 80% Modulation over the frequency range 80 - 1000MHz.

RFI Radiated Susceptibility ENV50204: (Latest Revision) 6V/m with 200Hz Pulse modulation. Spot Frequency 900MHz.

Electrical Fast Transients EN61000-4-4: (Latest Revision) (1kV data)

Electrostatic Discharge EN61000-4-2: (Latest Revision) contact discharge +/-5kV and air discharge +/-14kV

RFI Conducted Susceptibility EN61000-4-6: (Latest Revision) test level 6V, prior to application of 1kHz, 80% modulation. Test frequency range 0.15 MHz to 80 MHz

Power Frequency Magnetic Immunity EN 61000-4-8: (Latest Revision), 3 A/m

CONTACT

HEADQUARTERS

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OPTIONS

- NEMA 4X Stainless Steel
- Auto Dimming
- Resistive or Capacitive Touch Screen