



MURPHY®

THE POWERVIEW™
780

FLEXIBLE CAN-BASED DISPLAY CUSTOMIZED FOR YOUR APPLICATION



CAN-based display with rich, full-color graphics
Compatible with both mechanical and electronic engines
Bonded LCD screen, viewable in direct sunlight
Easy-to-use configuration software
Rugged design for extreme environments
Tier 4/Euro Stage IV ready
Multiple languages



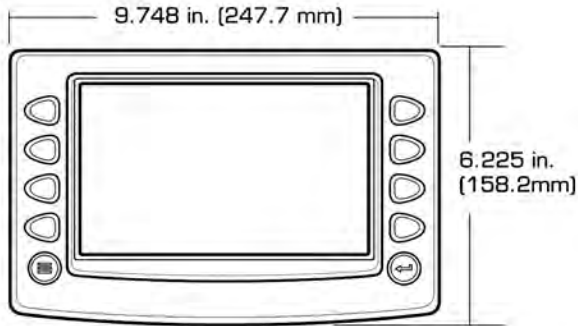
The PowerView 780 display is a full-featured, configurable display that integrates vital engine, transmission and diagnostic information into an easy to read operator interface. Integrate even more functionality into the display by way of the five available digital inputs. Additional switches can be wired into the display through the digital inputs and broadcast on the CANbus.

The PV780 features a full color, 7-inch bonded LCD for brighter, smoother graphics and best in class sunlight

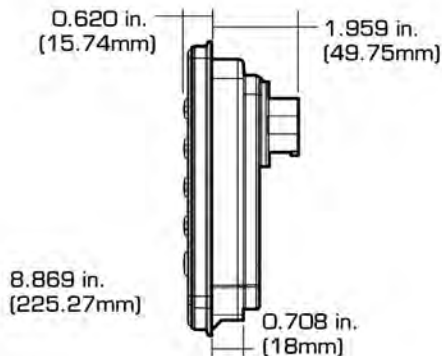
readability. The display's bonded LCD and rugged design make it a great solution for all types of environments and applications.

In addition, the PV780 display is compatible with the PowerVision Configuration Studio™, so custom software configurations can be quickly developed. With the software tool, it's easy to customize the user-interface – define custom parameters, add custom graphics, on-screen text, OEM branding and more.

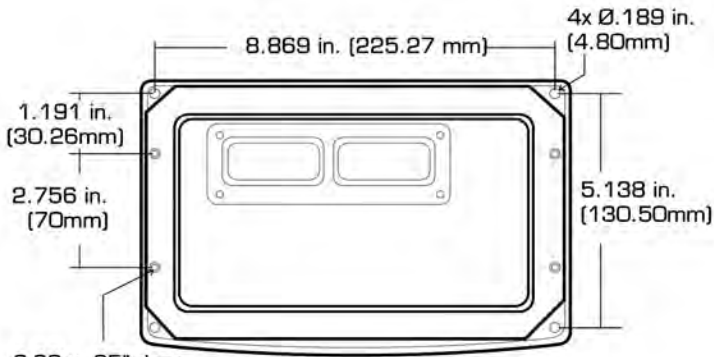
STANDARD DIMENSIONS



Front



Side



8-32 x .25" deep
brass inserts 4-places

Back

TECHNICAL SPECS:

- Display: 7"/178mm color transmissive TFT LCD
- Resolution: WVGA, 800 x 480 pixels, 16-bit color
- Aspect Ratio: 16:9
- Orientation: Landscape or portrait
- Backlighting: LED, 1,000 cd/m² (40,000 h lifetime)
- Microprocessor: Freescale™ i.MX357, 32 bit, 532 MHz
- GNX® Real-time Operating System
- Flash Memory: 2 GB
- RAM: 128 Mbytes SRAM
- USB: 2.0 host (full speed)
- SD Card Slot: for program updates, data and diagnostic data storage
- Real-time clock with internal rechargeable Li-ion battery back-up
- Operating Voltage: 6-36V, reverse polarity protected and load-dump
- Power Consumption: 10W full backlight; 22W full backlight with heater (heater active when temperature is less than -10°C)
- CAN: (2) CAN 2.0B; J1939 and CANopen protocols along with proprietary messaging; ISO 11898-2 high speed (transmission rates up to 1 Mbp/s)
- RS-485: 1 MODBUS® Master/Slave port, PVA gages
- Video input: 3 NTSC/PAL, single channel displayed
- Connectors: (2) AMPSEAL 23 pin
- Keyboard: 10 tactile pushbuttons
- Inputs: (3) 0-5V, 4-20mA, or resistive analog inputs, (1) frequency input configurable to support measurement frequencies from 2 Hz - 10 kHz, (5) discrete digital (active high)
- Outputs: (1) digital 500mA; switched low-side, (1) frequency 2Hz - 3kHz (0-VBattery, peak to peak, square wave).
- Mounting Options: Front, Back and Gimbal Mount

ENVIRONMENTAL SPECS:

- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Protection: IP66 and 67, front and back, for outdoor use
- EMC/EMI: - 2004/108/EC and 2006/95/EC Directives
 - EN 6100 6-4:2001 (emissions)
 - EN 6100 6-2:2001 (immunity)
 - EN 501121-3-2 and EN 12895
 - J1113/2, 4, 11, 12, 21, 24, 26, and 41
- Vibration: Random vibration, 7.86 Grms (5-2000Hz), 3 axis
- Shock: ±50G in 3 axis

* MODBUS is a registered trademark of its respective owners.

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Registered Facilities

