MURPHY®
by ENOVATION CONTROLS

FLEXIBLE CAN-BASED DISPLAY CUSTOMIZED FOR YOUR APPLICATION

THE POWERVIEW® 780

- CAN-based display with rich, full-color graphics
- Compatible with both mechanical and electronic engines
- Bonded, glare-free LCD screen, viewable in direct sunlight
- Easy-to-use configuration software
- Rugged design for extreme environments
- Multiple languages

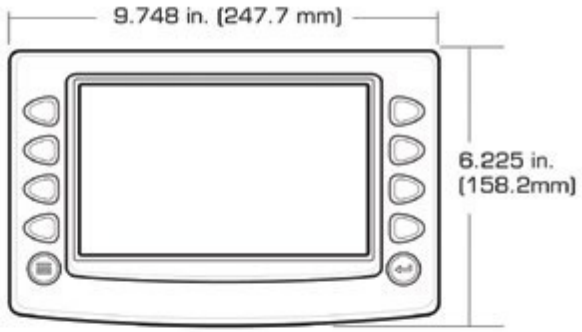
Tier 4 Final ready Stage IV

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 CAN bus.

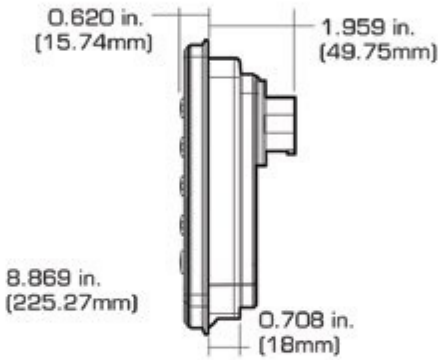
The PV780 features a full color, 7-inch bonded LCD for brighter, smoother graphics and best-in-class sunlight readability. The display's bonded LCD and rugged design make it a great solution for all types of environments and applications.

In addition, the PV780 display is compatible with PowerVision Configuration Studio® software, so custom 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.

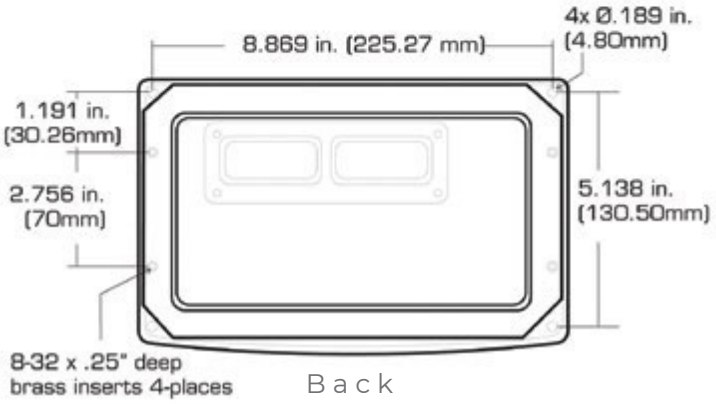
STANDARD DIMENSIONS



Front



Side



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
- QNX® Real-time Operating System
- Flash Memory: 2 GB
- RAM: 128 Mbytes SRAM
- USB: 2.0 host (full speed)
- Real-time clock with internal non-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; ISO 11898-2 high speed (transmission rates up to 1 Mbp/s); J1939 and CANopen protocols along with proprietary messaging
- 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) 0-5 VDC, 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.
- Mounting Options: Front, Back and Gimbal Mount

ENVIRONMENTAL SPECS:

• Operating and Storage Temperature: -40°C to +85°C (-40°F to +185°F) • Protection: IP66 and 67, front and back, for outdoor use
- EMC/EMI: 2004/108/EC and 2006/95/ED directives
EN 61000-4-3 (radiated EMF immunity)
EN 61000-4-4 (EFT immunity power and I/O lines)
EN 61000-4-5 (surges power lines)
EN 61000-4-6 (RF Immunity)
EN 61000-4-8 (magnetic field immunity)
EN 60945 (ESD)
EN 60945 (conducted emissions)
HYBRID EN 60945 CISPR 11 CLASS B (radiated emissions)
- Vibration: Random vibration, 7.86 Grms (5-2000Hz), 3 axis
- Shock: ±50G in 3 axis

* MODBUS is a registered trademark of its respective owners.

SALES CONTACT

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