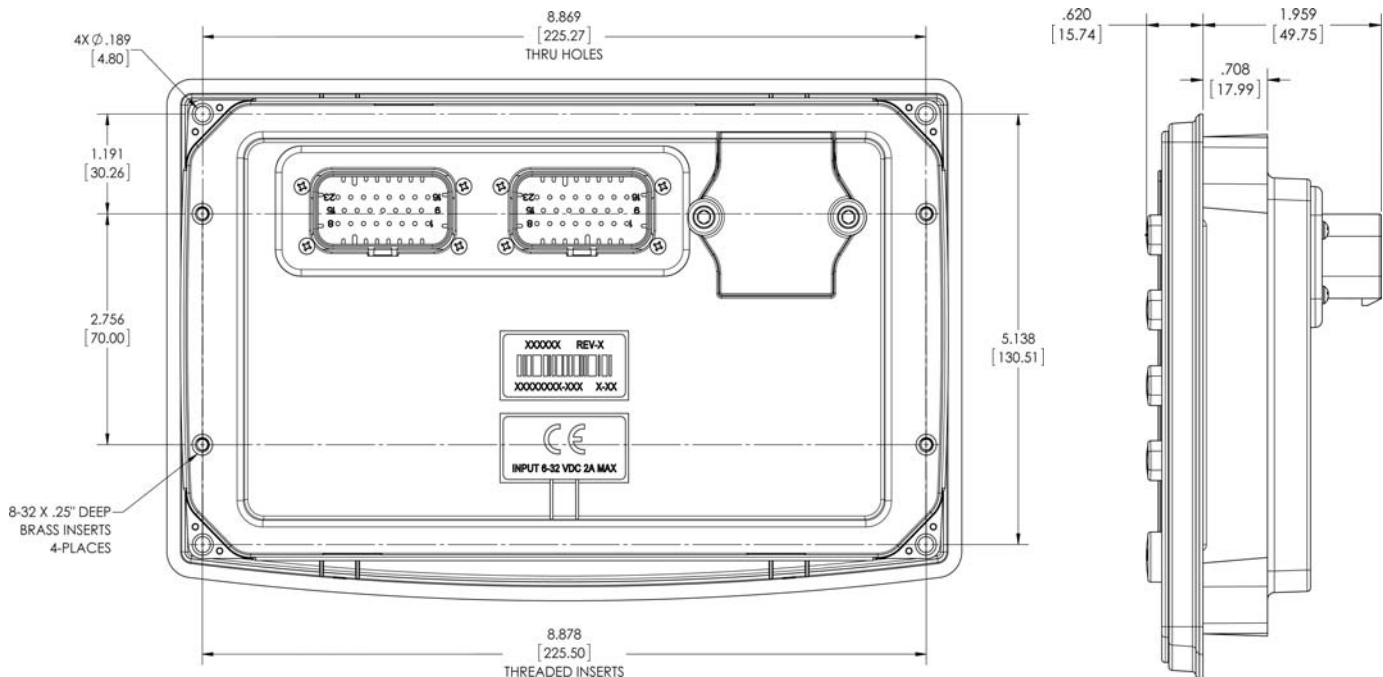# PowerView™ Model PV780

Features

- CAN-Based Display With Rich, Full-Color Graphics
- Compatible With Both Mechanical and Electronic Engines
- Tier 4/Euro Stage IV ready
- Sunlight Readable LCD
- Rugged Design for Extreme Environments
- Multiple Languages
- Easy-to-Use Configuration Software

The PowerView 780 display is a full featured, configurable display that integrated engine, transmission and diagnostic information into an easy to read operator interface. Equipment functionality can be further integrated through the available I/O and controlled via the CANbus.

The PV780 features a full color, 7-inch bonded LCD for brighter, smoother graphics and best in class sunlight readability. The rugged design makes this display a great solution for extreme environments.

The PV780 display is compatible with PowerVision Configuration Studio™ which allows users to edit CAN parameters, add OEM branding and create custom equipment screens for a unique and sophisticated user interface.

Dimensions

Specifications

Technical

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, 1000 nit maximum brightness

Microprocessor: Freescale™ i.MX357, 32 bit, 532 MHz, ARM11 core

QNX® Real-time Operating System

Flash Memory: 2 GB total, 1 GB available for data logging

RAM: 128 Mbytes SRAM

Operating Voltage: 6-36 VDC, reverse polarity protected

Video input:s: 3 NTSC/PAL

Connectors: 2 AMPSEAL 23 Pin (AMP 770680-1 and AMP 770680-4)

Keyboard: 10 tactile pushbuttons with white LED backlight

USB: (1) USB 2.0 host (OTG, full speed)

Real time clock: with Li-ion rechargeable battery backup

Communications:

- (2) CAN 2.0B with one isolated (NMEA 2000 compliant); J1939 and CANopen protocols; proprietary messaging
- (1) RS-485 serial (MODBus master/slave)
- (1) USB Host (OTG)

Outputs:

- (1) 500mA switched low-side
- (1) Frequency Out (2Hz - 5 kHz) Vbat rms square wave

Inputs:

- (3) Analog 0-5VDC, 4-20 mA, or resistive,
- (5) Discreet Digital 0-5V, Active High
- (1) Frequency In (2Hz - 10 kHz), 5Vpk-pk.min, 120Vpk-pk max

Environmental

Operating Temperature: -40°C to +85°C

Storage Temperature: -40°C to +85°C

Protection: IP66 and 67, front and back.

EMC/EMI:

- 2004/108/EC and 2006/95/EC directives
- EN 61000-6-4:2001 (emission)
- EN 61000-6-2:2001 (immunity)
- EN 501121-3-2 and EN 12895
- J1113/2, 4, 11, 12, 21, 24, 26 and 41

Vibration: Random vibration, 7.86 Grms (5-2000 Hz), 3 axis

Shock: ±50G in 3 axis

Mechanical

Dimensions: 8.37 x 6.0 in. (212.5 x 152.3 mm) landscape

Unit Depth: 3.57 in. (90.8 mm)

Case material: PC/ABS

Mounting Options: Front mount, back mount or gimbal mount

Certifications:

- CE
- E-mark capable

How to Order

Part #	Description
How to Order	
Displays	
78-00-0560	PV780 Display, Murphy Standard
Accessories	
78-05-1181	Cover, PV780
78-00-1053	Bracket kit, PV780 (bracket with screws)
78-00-1055	Harness, Grey Connector, USB
78-00-1056	Harness, Grey Connector, Flying Leads
78-00-1057	Harness, Black Connector, Flying Leads
78-09-0098	Programming Kit, PV780
78-00-1017	Harness, Black Connector, Development
78-00-1018	Harness, Grey Connector, Development
Service	
78-05-1180	Bezel, PV780
78-09-0069	Harness, PV750 Conversion, Power/CAN