

PowerView™ Model PV780



Features

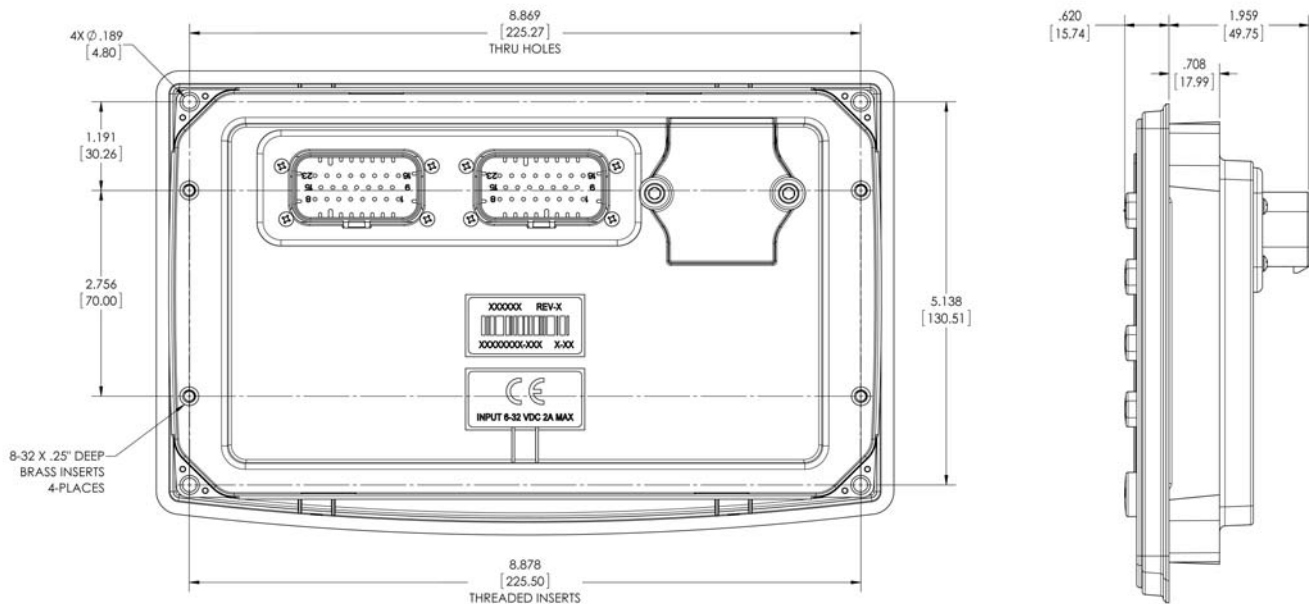
- CAN-Based Display With Rich, Full-Color Graphics
- Compatible With Both Mechanical and Electronic Engines
- Tier 4/Euro Stage IV ready
- Sunlight Readable LCD
- Rugged Design for Extreme Environments
- Multiple Languages
- Easy-to-Use Configuration Software

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

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: Bonded print/glare-free glass and 7" (178mm) color transmissive TFT LCD

Resolution: WVGA, 800 x 480 pixels, 16-bit color

Viewing Angle: ±65° horizontal, +55°/-65° vertical

Orientation: Landscape or Portrait

Backlighting: LED, 1000 nit typical brightness 40,000 hr. minimum

Contrast Ratio: 400:1

Refresh Rate: 60 Hz

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 Inputs: 3 NTSC/PAL (single channel viewable)

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

Keyboard: 10 tactile pushbuttons with white LED backlight

Touchscreen: (optional) projected capacitive

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

Real time clock: with Li-ion rechargeable battery backup

Communications:

- (2) CAN 2.0B according to ISO-11898-2; J1939 and CANopen protocols; proprietary messaging
- (1) RS-485 serial (MODBus master/slave or PVA gauge)
- (1) USB Host (OTG)

Outputs:

- (1) 500mA switched low-side
- (1) Frequency Out (2Hz - 3 kHz, Vbat rms square wave) for tach

Inputs:

- (3) Analog 0-5VDC, 4-20 mA, or resistive, 10-bit resolution
- (5) Discrete Digital, 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 61000-4-3 (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)

Electrical:

- J1113-2, -4, -11, -13, -21, -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, ISO 3795 (SAE J369, FMVSS 302) rated

Mounting Options: Front Mount, Back Mount, or RAM mount

Certifications:

- CE
- E-mark capable

How to Order

Part Number	Description	Note
78-70-0560	PV780 Display, Murphy Standard Configuration	Displays
78-70-0564	PV780 Touch Display (no configuration; bootloader only)	
78-09-0098	Programming Kit, PV780	Accessories
78-05-1181	Cover, PV780	
78-00-1053	Bracket Kit (screws included)	
78-00-1055	Harness, Gray Connector, USB	
78-00-1056	Harness, Gray Connector, Flying Leads	
78-00-1057	Harness, Black Connector, Flying Leads	
78-00-1017	Harness, Black Connector, Development	
78-00-1018	Harness, Gray Connector, Development	
78-09-0069	Harness, PV750 Conversion, Power/CAN	
78-05-1180	Bezel, PV780	

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ISO 9001
REGISTERED



USA (TULSA) - ISO 9001:2008 FM 28221
USA (ROSENBERG) - ISO 9001:2008 FM 2822
UK - ISO 9001:2008 FM 29422
CHINA - ISO 9001:2008 FM 523851
Registered Facilities

Printed in the USA