# MURPHY
by ENOVATION CONTROLS

## POWERVIEW®
# 780B

- 7-inch color display featuring rich color graphics

- Powerful processor for smooth animations and video playback

- 10 tactile configurable soft keys with white LED backlight

- Bonded glare-free LCD screen for superior visibility in sunlight

## SUNLIGHT VIEWABLE ENGINE DISPLAY WITH GLOVE-FRIENDLY TOUCH AND SOFT KEYS

The PowerView 780B is a full-color configurable display that integrates vital engine, transmission and diagnostic information into an easy-to-read operator interface.

This 7-inch display features expansive storage and a high-speed processor to boot quickly and seamlessly showcase graphics, transitions and videos.

The display's bonded LCD can easily be viewed in full sunlight, and its available glove-friendly touchscreen and rugged design make it a perfect solution for all types of environments and applications.

The PV780B is available in glove-friendly touchscreen and non-touchscreen options.

### BUILT FOR POWERVISION

PowerVision Configuration Studio® software lets programmers design stunning user interfaces, create intelligent applications with scripting and prototype quickly with a vast library of standard engine parameters.
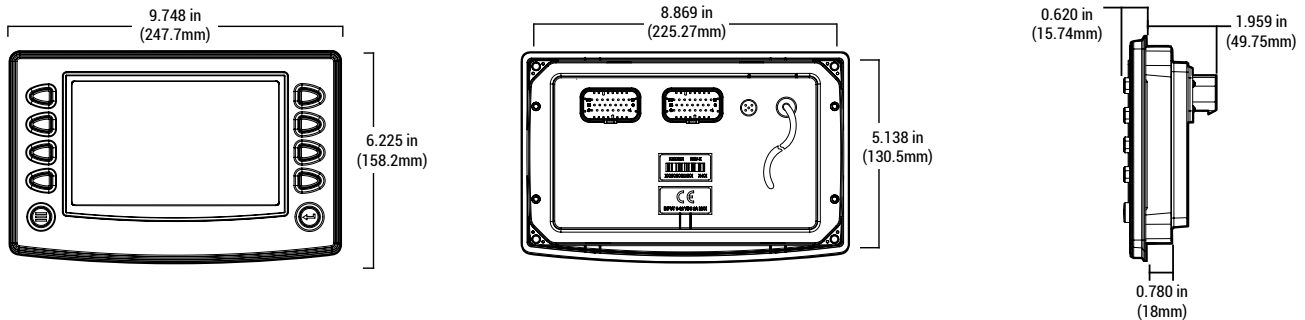
Tier 4 Final ready Stage IV

IP 67

**ENOVATIONCONTROLS.COM/PV780B**

# POWERVIEW® 780B

## DIMENSIONS



9.748 in (247.7mm)
6.225 in (158.2mm)

8.869 in (225.27mm)
5.138 in (130.5mm)

0.620 in (15.74mm)
1.959 in (49.75mm)
0.780 in (18mm)

## PRODUCT SPECIFICATIONS

### COMPUTING

| | |
|---|---|
| PROCESSOR | Renesas® R-Car M2 with Arm® Cortex®-A15 dual-core processor @ 1.5 GHz (32-bit) |
| OPERATING SYSTEM | QNX® Realtime Operating System |
| STORAGE | 8 GB flash memory |
| RAM | 512 MB DDR3-SDRAM |
| GRAPHICS | Renesas graphics processor |

### DISPLAY

| | |
|---|---|
| SCREEN SIZE | 7 inches (178 mm) |
| TYPE | LVDS TFT LCD with LED backlight, 24-bit color |
| RESOLUTION | 800 × 480 (WVGA) |
| CONTRAST RATIO | Typ. 600:1 |
| BRIGHTNESS | 1000 cd/m² |
| SURFACE | Anti-glare |
| TOUCH PANEL | Projected capacitive (PCAP) with glove touch |

### HARDWARE

| | |
|---|---|
| KEYPAD | 10 tactile configurable soft keys with white LED backlight |
| REAL TIME CLOCK | Available with battery backup |
| CONNECTORS | (2) AMPSEAL 23 pin (main) (1) M12 5 pin [Ethernet] (optional) (1) USB pigtail |
| VIDEO INPUTS | (3) NTSC/PAL (single channel viewable) |

### COMMUNICATION

| | |
|---|---|
| CAN | (2) CAN 2.0B according to ISO 11898-2, J1939 and proprietary messaging |
| SERIAL | RS-485 serial (Modbus: master or slave) |
| USB | USB 2.0 full speed host |
| ETHERNET | 1 X Ethernet 10/100 Base-T (optional) |
| WI-FI | 802.11 b/g radio (optional) |
| BLUETOOTH | Fully integrated Bluetooth 2.1, class 1 (optional) |

### ELECTRICAL

| | |
|---|---|
| OPERATING VOLTAGE | 6 – 36 VDC, reverse polarity protected |
| INPUTS | (3) Analog 0 – 5 VDC, 4-20 mA, resistive, 10-bit resolution (5) Discrete digital, active-high (1) Frequency in (2Hz – 10kHz) 5V pk-pk min, 49V pk-pk max |
| OUTPUTS | (1) 500 mA switched low-side (1) Frequency output (2Hz – 3KHz) |

### ENVIRONMENTAL

| | |
|---|---|
| OPERATING TEMPERATURE | -40˚C to +85˚C (-40˚F to +185˚F) |
| STORAGE TEMPERATURE | -40˚C to +85˚C (-40˚F to +185˚F) |
| PROTECTION | IP66 and IP67, front and back, for outdoor use |
| VIBRATION | 7.86 Grms (5 – 2000Hz), 3 axes |
| SHOCK | ±50G in 3 axes |
| EMC/EMI | SAE J1113, ISO 13766, CE per 2014/30/EU |

⚠ **WARNING**: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

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**FOR MODEL & PART INFORMATION**
ENOVATIONCONTROLS.COM/PV780B

**FOR MANUAL & SUPPORT DOCUMENTS**
SUPPORT.ENOVATIONCONTROLS.COM

**FOR SUPPORT & WARRANTY**
ENOVATIONCONTROLS.COM/SUPPORT

## SALES CONTACT

**ENOVATION CONTROLS®**
www.enovationcontrols.com

**CONTACT**
✉ sales@enovationcontrols.com
☎ +1 918.317.4100

**CORPORATE HEADQUARTERS**
*5311 S 122nd E Ave*
*Tulsa, Oklahoma, USA 74146*

*United States • United Kingdom • India • China*

bsi. ISO 9001 Quality Management

FM 28221 (Tulsa, OK-USA)
FM 29422 (UK)