




MURPHY®

by **ENOVATION** CONTROLS

POWerview® 780B

MORE POWER AND MEMORY FOR ENHANCED USER EXPERIENCE

	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
	Easy-to-use configuration software
	Bonded glare-free LCD screen for superior visibility in sunlight



Graphic interface not included, custom configuration required

The PowerView 780B offers all the features of Murphy's popular PV780 with more power and memory. The PV780B 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.

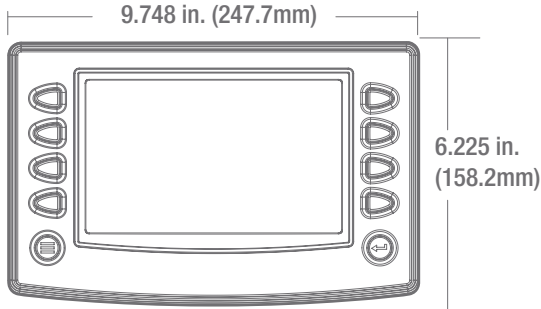
The PV780B is available in glove-friendly touchscreen and non-touchscreen options.

Customization of the display is accomplished quickly via graphical programming or scripting with PowerVision Configuration Studio® software. This tool allows for quick creation of personalized user interfaces, custom parameters and specialized graphics for on-screen text, OEM branding and more.

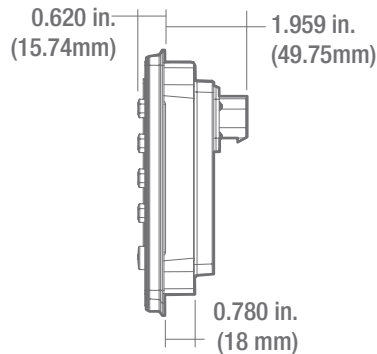
POWerview® 780B

DIMENSIONS

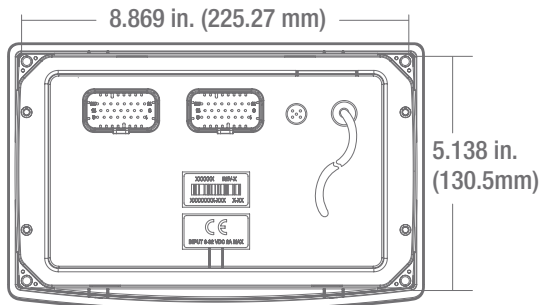
Front



Side



Back



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 x 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 Input: (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
- Outputs:
 - (1) 500 mA switched low-side
 - (1) Frequency output (2Hz – 3KHz)
- 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

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

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