ENOVATION CONTROLS®
A HELIOS COMPANY

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 that boots quickly and can render high-quality graphics and animations.

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.
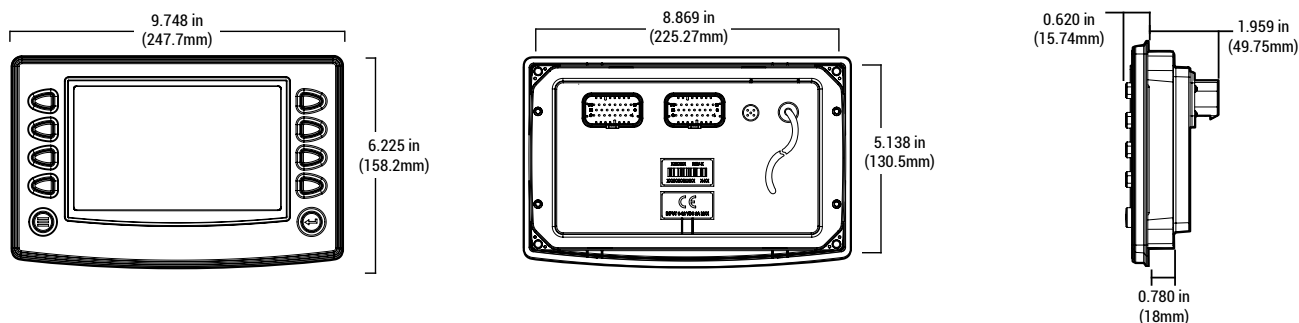
Tier 4 Final ready Stage V   IP 67

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

OPERATINGVOLTAGE	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

OPERATINGTEMPERATURE	-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.

FOR MODEL & PART INFORMATION

ENOVATIONCONTROLS.COM/PV780B

FOR MANUAL & SUPPORT DOCUMENTS

SUPPORT.ENOVATIONCONTROLS.COM

FOR SUPPORT & WARRANTY

ENOVATIONCONTROLS.COM/SUPPORT

SALES CONTACT

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Quality Management

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