

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.

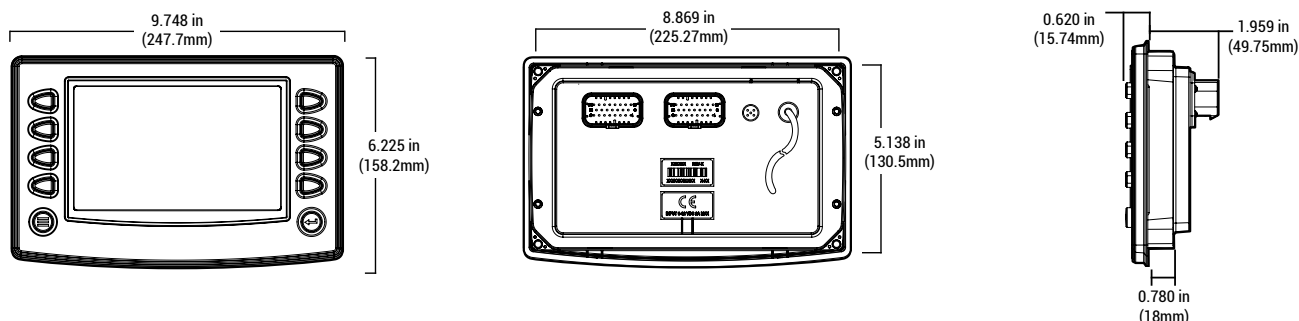


**IP
67**

POWerview® 780B

1712046
01-2019

DIMENSIONS



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

FOR MANUAL & SUPPORT DOCUMENTS

FOR SUPPORT & WARRANTY

ENOVATIONCONTROLS.COM/PV780B

SUPPORT.ENOVATIONCONTROLS.COM

ENOVATIONCONTROLS.COM/SUPPORT

SALES CONTACT

ENOVATION
CONTROLS®
A HELIOS TECHNOLOGIES COMPANY

CONTACT

✉ sales@novationcontrols.com
☎ +1 918.317.4100
www.novationcontrols.com

CORPORATE HEADQUARTERS

5311 S 122nd E Ave
Tulsa, Oklahoma, USA 74146
United States • United Kingdom • India • China



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