

4.3-inch color display featuring rich, color graphics

Optically-bonded glare-free LCD screen for superior visibility in sunlight

Customizable I/O with RS485 serial connection

5 tactile configurable soft keys



## FULL-COLOR CONTROLLER WITH RS485 CONNECTION FOR ENGINE APPLICATIONS

The PV485 is a customizable, all-in-one color display and controller designed to meet the needs of modern electronic engines and equipment applications. Its rugged design offers a wide array of configurable I/O and supports both mechanical and J1939 electronic engines.

The display's bonded LCD can easily be viewed in full sunlight, and its rugged tactile soft keys and durable design make it a perfect solution for all types of environments and applications.

The PV485 also supports Tier 4 and stage IV engines, helping to make your transition to Tier 4 easier.

### 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.

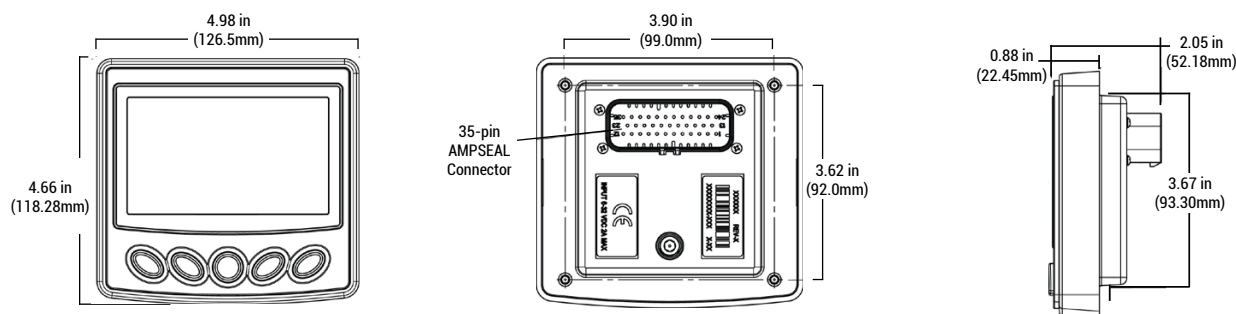


**IP  
67**

# POWerview® 485

1715037  
01-2019

## DIMENSIONS



## PRODUCT SPECIFICATIONS

COMPUTING	
MICROPROCESSOR	Freescale i.MX35 32bit, 532MHz
OPERATING SYSTEM	QNX® Realtime Operating System
STORAGE	256 MB flash memory
RAM	128 Mbytes DDR2 SDRAM
DISPLAY	
SCREEN SIZE	4.3 inches, 109mm color transmissive TFT LCD
RESOLUTION	WQVGA, 480 x 272 pixels, 16-bit color
BRIGHTNESS	900-1000 cd/m²
HARDWARE	
KEYPAD	5 soft keys
REAL TIME CLOCK	Available with battery backup
CONNECTORS	(1) 35-pin AMPSEAL connector (AMP 776231-1)
VIDEO INPUTS	(3) NTSC/PAL (single channel viewable)

**⚠ 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](http://www.P65Warnings.ca.gov).

COMMUNICATION	
CAN	(2) CAN 2.0B according to ISO 11898-2, J1939 and proprietary messaging
SERIAL	RS-485: 1 MODBUS® Master/Slave port, PVA gages
USB	USB 2.0 full speed host
ELECTRICAL	
OPERATING VOLTAGE	6 to 32 VDC protected against reversed polarity and load-dump
INPUTS	(4) Analog 0–5 VDC, 4–20 mA (2) Analog, battery voltage (3) Discrete digital (1) Alternator and Magnetic Pickup
OUTPUTS	(4) 500 mA switched low-side (1) Analog 0–5 VDC
ENVIRONMENTAL	
OPERATING TEMPERATURE	-40 to +85°C (-40 to 185°F)
STORAGE TEMPERATURE	-40 to +85°C (-40 to 185°F)
PROTECTION	IP67, front and back
VIBRATION	Random vibration, 7.86 Grms (5-2000 Hz), 3 axes
SHOCK	± 50G in 3 axes
EMC/EMI	SAE J1113 or customer-specified (CE) - EN61000-6-2, EN12895, ISO 13766
CASE	Polycarbonate / ABS

FOR MODEL & PART INFORMATION

[ENOVATIONCONTROLS.COM/PV485](http://ENOVATIONCONTROLS.COM/PV485)

FOR MANUAL & SUPPORT DOCUMENTS

[SUPPORT.ENOVATIONCONTROLS.COM](http://SUPPORT.ENOVATIONCONTROLS.COM)

FOR SUPPORT & WARRANTY

[ENOVATIONCONTROLS.COM/SUPPORT](http://ENOVATIONCONTROLS.COM/SUPPORT)

## SALES CONTACT

**ENOVATION**  
**CONTROLS®**  
[www.enovationcontrols.com](http://www.enovationcontrols.com)

### CONTACT

✉ [sales@enovationcontrols.com](mailto:sales@enovationcontrols.com)  
☎ +1 918.317.4100

### 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)