

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 POWERSVISION

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.

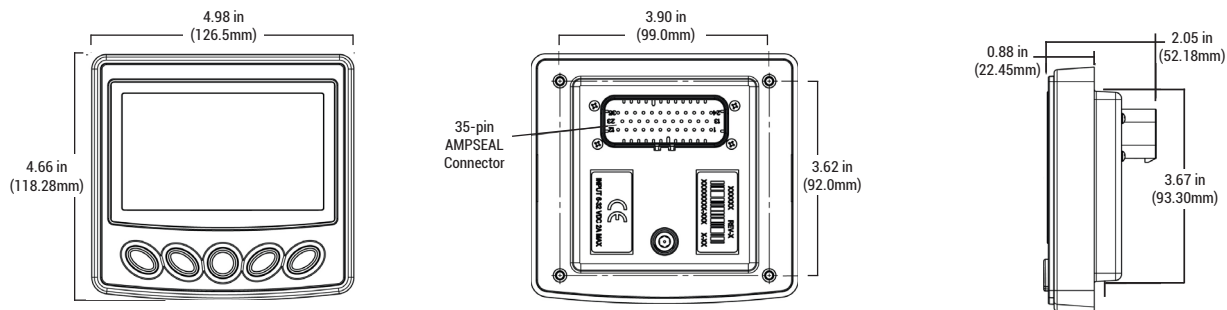


**IP  
67**

# POWerview® 485

1715037 01-2019

## DIMENSIONS



## PRODUCT SPECIFICATIONS

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

**⚠ 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	
<b>CAN</b>	(1) CAN 2.0B according to ISO 11898-2, J1939 and proprietary messaging
<b>SERIAL</b>	RS-485: 1 MODBUS® Master/Slave port, PVA gages
<b>USB</b>	USB 2.0 full speed host
ELECTRICAL	
<b>OPERATING VOLTAGE</b>	6 to 32 VDC protected against reversed polarity and load-dump
<b>INPUTS</b>	(4) Analog 0–5 VDC, 4–20 mA (2) Analog, battery voltage (3) Discrete digital (1) Frequency In (2Hz - 10kHz), 5Vpk-pk min, 49Vpk-pk max
<b>OUTPUTS</b>	(4) 500 mA switched low-side (1) Analog 0–5 VDC
ENVIRONMENTAL	
<b>OPERATING TEMPERATURE</b>	-40 to +85°C (-40 to 185°F)
<b>STORAGE TEMPERATURE</b>	-40 to +85°C (-40 to 185°F)
<b>PROTECTION</b>	IP67, front and back
<b>VIBRATION</b>	Random vibration, 7.86 Grms (5-2000 hz), 3 axes
<b>SHOCK</b>	± 50G in 3 axes
<b>EMC/EMI</b>	SAE J1113 or customer-specified (CE) - EN61000-6-2, EN12895, ISO 13766
<b>CASE</b>	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



### CONTACT

✉ [sales@novationcontrols.com](mailto:sales@novationcontrols.com)

☎ +1 918.317.4100

[www.novationcontrols.com](http://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)