MURPHY®
by ENOVATION CONTROLS

POWERVIEW®
485

4.3-inch color display
capable of rich, color graphics

Fully featured standard software
ready for Tier 4 and Stage V engines

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 PowerView 485 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, including an RS485 serial connection, and support for both mechanical and J1939 electronic engines.

Designed to allieviate most user's need for custom programming, the PV485 comes with standard software that enables complete configuration from the unit, including out of the box support for Stage V and Tier 4 Final emission controls on compatible engines. From the display, operators can also customize gauges and parameter choices, access diagnostic tools, import and export settings to USB and more.

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.

AVAILABLE IN A PANEL SOLUTION

The rugged MLC485 control panel brings the power and functionality of the PowerView® 485 into an out-of-the-box panel solution for any engine-driven application with a keyswitch and optional emergency stop.

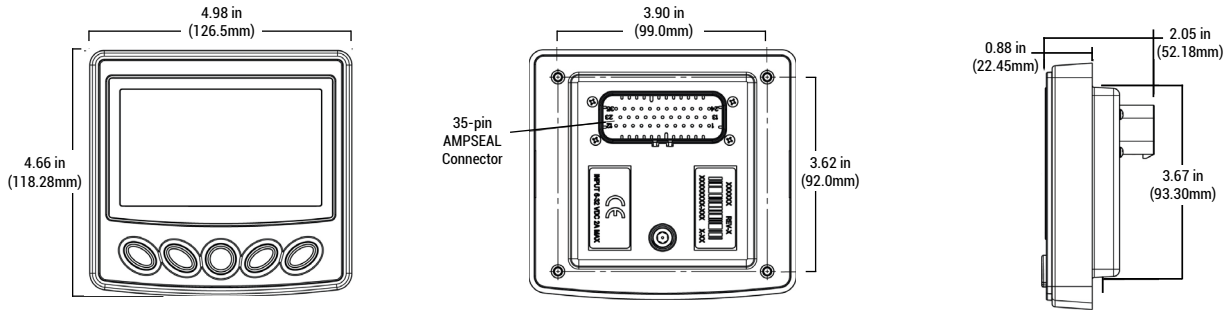**FOR MORE INFORMATION ABOUT MLC485, VISIT:**
ENOVATIONCONTROLS.COM/MLC485

Tier 4 Final ready Stage V

IP 67

ENOVATIONCONTROLS.COM/PV485

POWERVIEW® 485

PV485 DIMENSIONS

Please refer to specification below for MLC485 dimensions

4.98 in (126.5mm)

4.66 in (118.28mm)

3.90 in (99.0mm)

35-pin AMPSEAL Connector

3.62 in (92.0mm)

0.88 in (22.45mm)

2.05 in (52.18mm)

3.67 in (93.30mm)

PV485 SPECIFICATIONS

COMPUTING

MICROPROCESSOR	Freescale i.MX35 32bit, 532MHz
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)

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) Frequency In (2Hz - 10kHZ), 5Vpk-pk min, 49Vpk-pk max
OUTPUTS	(4) 500 mA switched low-side (1) Analog 0–5 VDC

INCLUDED SOFTWARE

LANGUAGES	English, French, German, Italian, Spanish

⚠️ **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.

COMMUNICATION

CAN	(1) 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 for programming

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

MLC485 SPECIFICATIONS

HARDWARE

DIMENSIONS	9.39 x 6.06 x 5.13 in (238 x 154 x 130 mm)
KEYSWITCH	Included
EMERGENCY STOP	Optional

ENVIRONMENTAL

ENCLOSURE	Powder-coated cold rolled steel

FOR MODEL & PART INFORMATION

ENOVATIONCONTROLS.COM/PV485 &
ENOVATIONCONTROLS.COM/MLC485

FOR MANUAL & SUPPORT DOCUMENTS

SUPPORT.ENOVATIONCONTROLS.COM

FOR SUPPORT & WARRANTY

ENOVATIONCONTROLS.COM/SUPPORT

SALES CONTACT

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