MURPHY

PowerView™ Model PV450

Features

- Compact CAN-based display to fit your application with freely configurable design
- Customize the bezel, buttons, I/O interface and more
- Easy-to-use PowerVision Configuration Studio™ Software.
- Bonded LCD screen viewable in direct sunlight
- Rugged / Reliable Design
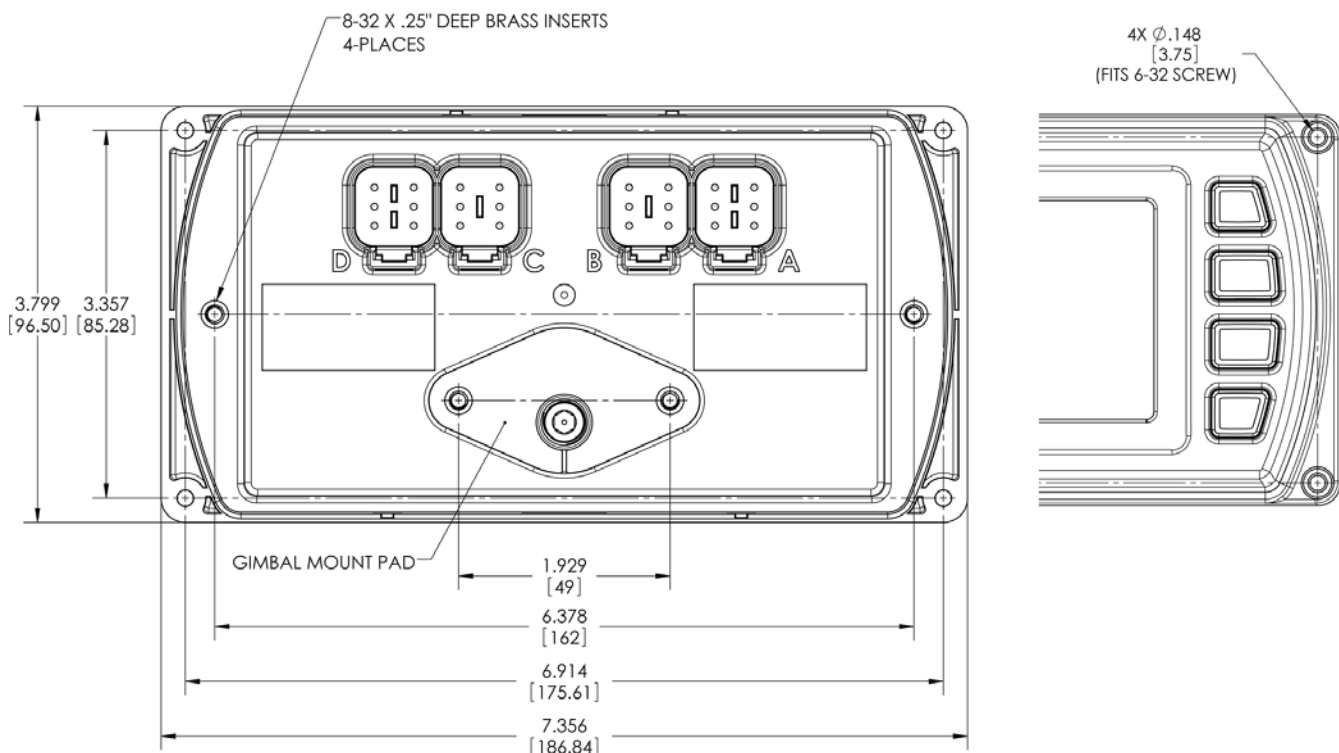- Unit available - Approved for Class I, Division 2, Groups B, C and D; Temperature Code T4

The PowerView 450 display features a freely configurable design. Any of the major components can be custom engineered to meet your exact needs. It's an incredible amount of customizing with minimal non-recurring engineering costs.

You can change the shape of the bezel and buttons. You can rework the I/O board to add extra inputs. You can add custom graphics and company branding to the interface.

The PowerView 450 display is compatible with PowerVision Configuration Studio software, so you can continue to make quick and easy changes to the display.

The PV450 display is also highly durable. See the specifications on the back of this sheet for a complete overview of its technical features.

Dimensions

General Specifications

Technical

Display: Bonded 4.3" color transmissive TFT LCD

Resolution: WQVGA, 480 x 272 pixels, 16-bit color

Aspect Ratio: 16:9

Orientation: Landscape or portrait

Backlighting: LED, 500-650 cd / m2 (30,000 hr lifetime)

Microprocessor: Freescale iMX35 32bit, 532Mhz

QNX Real-Time Operating System

Flash Memory: 256 MB (expandable to 8GB)

RAM: 128 Mbytes DDR2 SDRAM

Operating Voltage: 6-32 VDC, protected against reverse polarity and load-dump. (6-30 VDC)*

Power Consumption: 10W max. (163 mA max @ 30VDC)*

CAN: Two CAN 2.0B; optional NMEA 2000 isolation

RS-485: 1 MODBUS Master/Slave

Video input (Optional): Two NTSC/PAL input channels with one displayed at a time.

Protocols: J1939, NMEA 2000, CANopen

Connection: 4 Deutsch DT 6-pin connectors

Keyboard: 8 tactile buttons

USB 2.0 host, full speed, optional OTG support

Output: (1) Open-drain, capable of syncing 500 mA

Input: (1) Resistive, 0-5 V, or 4-20 mA (software configurable)

Real-time clock with battery backup

Environmental

Operating Temperature: -40°C to +85°C

Storage Temperature: -40°C to +85°C

Protection: IP 66 and 67, front and back.

Emissions and Immunity: Electromagnetic Compatibility: 2004/108/EC

EN 61000-6-4	EN 501121-3-2
EN 61000-6-2 (immunity)	EN 12895
J1113/2, 4, 11, 12, 21, 24, 26 and 41	

Vibration: Random vibration, 7.86 Grms (5-2000 Hz), 3 axis

Shock: ± 50G in 3 axis

Specifications applicable to CSA-certified PV450 only

(CSA Certification: Class I Division 2 Groups B, C, & D; T4; IP66)

CAN: Two CAN 2.0B

Protocols: J1939 and CANopen

Environmental Protection: IP66

Additional Options

LCD Touchscreen (projected capacitance) capability

How to Order		
Part No.	Model Number	Description
78-70-0436	PV450, MSTD W/O VIDEO	PV450 without Video (MSTD)
78-70-0538	PV450, J1939,NMEA, VIDEO, 485	PV450 with Video (NMEA)
78-70-0515	PV450, MSTD W/VIDEO	PV450 with Video (MSTD)
CSA	Certified PV450 *(Class I Division 2 Groups B, C and D; Temperature Code T4; IP66)*	
78-70-0543	PV450-01-CSA	PV450 with Video (cCSAus)
78-70-0544	PV450NV-01-CSA	PV450 without Video (cCSAus)
Accessories		
78-00-0831	VISOR KIT, PV450	PV450 Visor Kit
78-00-0814	KIT, MOUNTING PLUG, PV450	PV450/PV750 Mounting Plug Kit