

by **ENOVATION** CONTROLS



PowerView[®] Model PV450

cCSAus, Class1, Division 2 Supplement

00-02-0826 2019-02-12 Section 78 In order to consistently bring you the highest quality, full featured products, we reserve the right to change our specifications and designs at any time. The latest version of this manual can be found at www.enovationcontrols.com.

Warranty - A limited warranty on materials and workmanship is given with this Murphy product. A copy of the warranty may be viewed or printed by going to www.enovationcontrols.com/warranty



Hardware Installation

The following instructions will guide you through installing the PV450 display.

NOTE: This device must be installed within a system enclosure where the suitability of the overall assembly is determined acceptable by the authorities having jurisdiction

Inspecting Package Contents

Before attempting to install the product, it is recommended that you ensure all parts are accounted for and inspect each item for damage (which sometimes occurs during shipping). The items included in the box are:

Installation kit – P/N 78-00-0877 includes:

- 4 ea. machine screws
- 4 washer nuts
- 4 O-Ring
- 1 Dash mount gasket
- Read me first insert P/N 00-02-0752

Tools needed.

- Drill with 5/32" size bit
- Jig Saw
- Wrench or socket 6-32 Nylock nuts (provided) to studs

Prepare the PV450 Mounting Hole

Determine the PowerView 450 mounting location. Use the Installation Template (included at the end of the supplement) as a guideline to cut a hole in the dash to the specified dimensions. Drill holes where indicated on the template for the mounting screws.

NOTE: When using the paper template from the manual, please be aware that if you downloaded this document from the Enovation Controls website, the pdf file might not automatically print to scale. When submitting the file for print, you will need to select "None" for Page Scaling. Check the accuracy of the printed template by verifying the measurements labeled on the template are correct. If this manual was supplied with your product, the template will be correct.

Installation of Display

- 1. Remove paper liner from gasket. Then apply the gasket onto the backside of the PV450 display. **Be sure not to wrinkle or stretch the gasket.**
- 2. Insert the O-ring onto each of the four screws.
- 3. Place the back side of the display through the cut-out opening.
- 4. Use the 4 screws to line up the unit with the drilled holes.
- 5. Push the unit through the opening and screws through the drilled holes until the back of the case is flush.
- 6. Use the washer nuts provided to tighten unit to the dash. Use the appropriate wrench or socket to tighten. Torque lock nuts to 5-6 inch pounds.

Dimensions for Installation



Specifications

Electrical

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, 532 MHz
Operating System	QNX Real Time
Flash Memory	256 MB
RAM	128 Mb DDR2 SDRAM
Operating Voltage	6 - 30 VDC, protected against reverse polarity and load-dump
Power Consumption	2A, 30VDC Max
CAN	Two CAN 2.0B
RS-485	1 MODBUS Master/Slave
Protocols	J1939, CANopen and proprietary CAN messages
Connection	4 Deutsch DT 6-pin connectors
Keyboard	8 tactile buttons
USB	USB 2.0 host (full speed)
Input	(1) Resistive, 0-5 V, or 4-20 mA (software configurable)
Video Input (optional)	Two NTSC/PAL input channels with one displayed at a time
Output	(1) open-drain, capable of sinking 500mA
Real-time Clock	With internal Non-rechargeable Lithium Battery. Battery is not field serviceable.

Environmental

Operating Temperature	-40° C to +85° C
Storage Temperature	-40° C to +85° C
Protection	IP 66 front and back when installed within a system enclosure per installation instructions where the suitability of the overall assembly is determined acceptable by the Authorities Having Jurisdiction.
Emissions and Immunity	Electromagnetic Compatibility: 2004/108/EC J1113/2, 4, 11, 21, 26 and 41 EN61000-6-4 EN 61000-6-2 (immunity) EN 501121-3-2 EN 12895
Vibration	Random vibration, 7.86 Grms (5-2000 Hz), 3 axis
Shock	+/- 50G in 3 axis

Mechanical

Case Material	Polycarbonate back case
Certification	
cCSAus	Class 1, Division 2, Groups B,C,D, T4

PV450 CUTOUT



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