

PowerView[®] Models PV350 & PV380 MSTD R1



Installation Manual

*Products covered in this document comply with European Council electromagnetic compatibility directive 2004/108/EC and electrical safety directive 2006/95/EC.

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 <u>www.fwmurphy.com</u>.

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 <u>www.fwmurphy.com/support/warranty.htm</u>

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Hardware Installation

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

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:

- PV350 or the PV380 unit
- Dash gasket
- Installation manual P/N 00-02-0989

Tools needed.

- Jig Saw, or
- 3.5" Hole saw, or
- 3.5" knockout (chassis) punch

Preparing the Dash

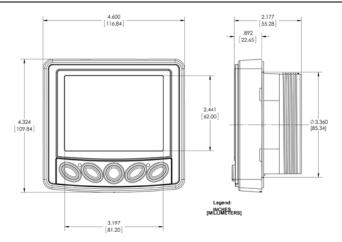
Determine the location of the PowerView in the dash. Refer to the Mounting Hole Options sheet at the end of this document for the appropriate opening sizes.

Mounting the Unit

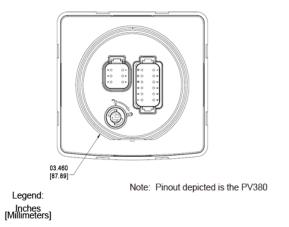
- 1. Place the dash gasket over the prepared dash opening.
- 2. Place the back side of the display through the opening in the dash.
- 3. Push the unit through the opening until the case is flush.
- 4. Place the screw on type mounting clamp behind the dash and install on the unit until it is hand tight.

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Dimensions

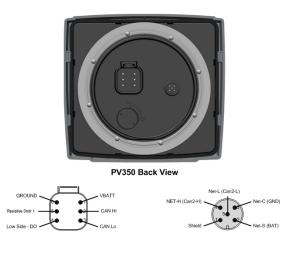


Dimensions, cont.



Wiring Information

Pin Specifications for PV350



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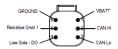
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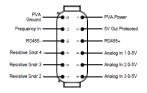
Pin Specifications for PV380

PV380 Connector Pin Outs



PV380 Back View





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PV350 Mating Connector Part Numbers:

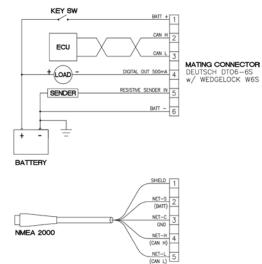
- Deutsch DT06-12SA plug housing
- Deutsch DT06-6S plug housing
- W6S and W12S wedge locks
- Deutsch 0462-201-16141 contact (socket)
- M12 (Micro-C) 5-pin male plug compatible with NMEA 2000 thin backbones (light cable)

PV380 Mating Connector Part Numbers:

- Deutsch DT06-12SA plug housing
- Deutsch DT06-6S plug housing
- W6S and W12S wedge locks
- Deutsch 0462-201-16141 contact (socket)

Wiring Diagram for PV350

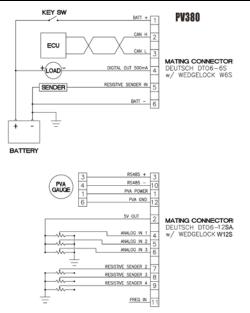
PV350



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Wiring Diagram for PV380



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PV350 and PV380 Features and Operations



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Flat Screen Display

A 3.8" QVGA monochrome LCD screen displays gauges, soft key commands, and fault messages, as well as menu options for setup and configuration.

Soft Keys and Commands

The five tactile push buttons on the bottom of the display correspond to the options available for the screen being displayed.

Alarms

Red and amber warning LEDs; Setpoint triggered output for external piezo buzzer or shut-down relay.

Operations Manual

The PV350/PV380 Murphy Standard Configuration Operation manuals can be found at <u>www.fwmurphy.com/products/displays/PV350</u> and <u>www.fwmurphy.com/PV380</u>.

Specifications

Electrical

Display	3.8" monochrome LCD			
Resolution	QVGA, 320 x 240 pixels			
Orientation	Landscape			
Backlighting	LED, white			
Flash Memory	512kb			
RAM	96kb			
Operating Voltage	6 - 36 VDC, protected against reverse polarity and load-dump			
Power Consumption	10 W max			
CAN	CAN 2.0B			
Protocols	J1939, FreeForm CAN			
Connection	PV350: 6 pin Deutsch connector and 5 pin M12 connector PV380: 6 pin and 12 pin Deutsch DT series connectors			
Keyboard	5 tactile buttons			
Continued on next page				

Inputs	 PV350: (1) resistive analog (backlight control) PV380: (4) resistive analog, (3) analog, 0-5V analog or digital, (1) frequency, 2-10,000 Hz, 3.6-120 VAC
Output	PV350: (1) 500 mA; switched low-side PV380: (1) 500 mA; switched low-side, (1) 5V supply, 70 mA, protected

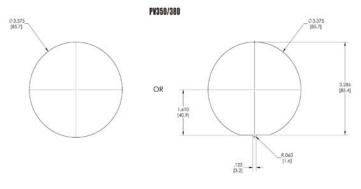
Environmental

Operating Temperature	-40° C to +85° C
Storage Temperature	-40° C to +85° C
Protection	IP67, front and back, IP66 panel seal
Emissions	SAE J1113 or customer-specified
Immunity	SAE J1113 or customer-specified
Vibration	Random vibration, 7.86 Grms (5.2000 Hz), 3 axis
Shock	+/- 50G in 3 axis

Mechanical

Case Material	PC/ABS	

Mounting Hole Options



MOUNTING HOLE OPTIONS

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