PowerView®
Models PV350 & PV380 R2

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 www.fwmurphy.com.

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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 00-02-0998

The PV350 and PV380 R2 Operations Manual can be found online at www.fwmurphy.com/PV380

Dash-Mounted Installation

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.
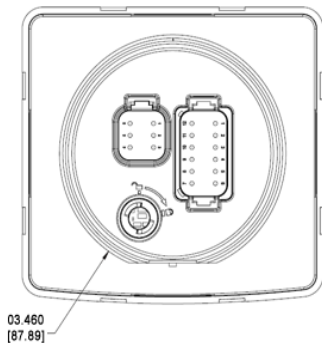
Mounting the Unit

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.
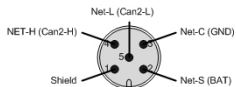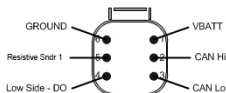
Dimensions

Legend:
INCHES
[MILLIMETERS]
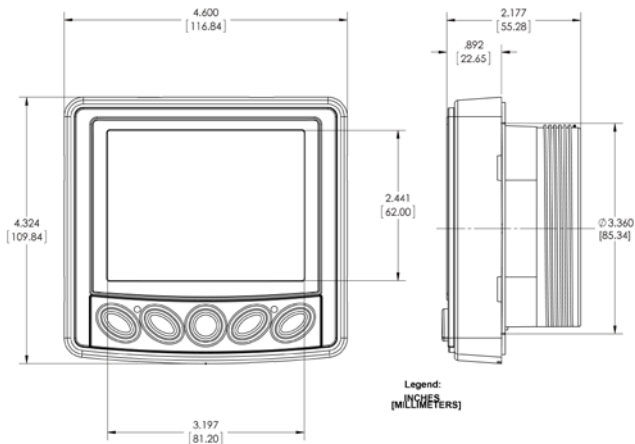
Dimensions, cont.

03.460
[87.89]

Note: Pinout depicted is the PV380

Legend:

Inches
[Millimeters]

Wiring Information

Pin Specifications for PV350

PV350 Back View

Pin Specifications for PV380

PV380 Connector Pin Outs (Back View)

GROUND	VBATT
Resistive Sndr 1	CAN Hi
Low Side - DO	CAN LO

Pin layout: 6 1, 5 2, 4 3

PVA Ground	PVA Power
Frequency In	Low Side - DO
RS485–	RS485+
Resistive Sndr 4	Analog In 1.0-5V /4-20 mA
Resistive Sndr 3	Analog In 2.0-5V /4-20 mA
Resistive Sndr 2	Analog In 3.0-5V /4-20 mA

Pin layout: 12 1, 11 2, 10 3, 9 4, 8 5, 7 6
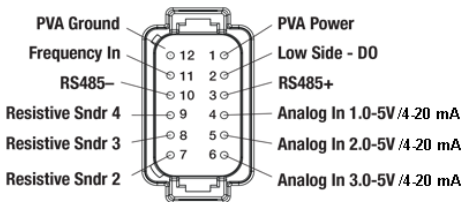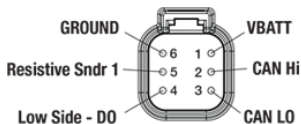
PV350 Mating Connector Part Numbers:

- 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)
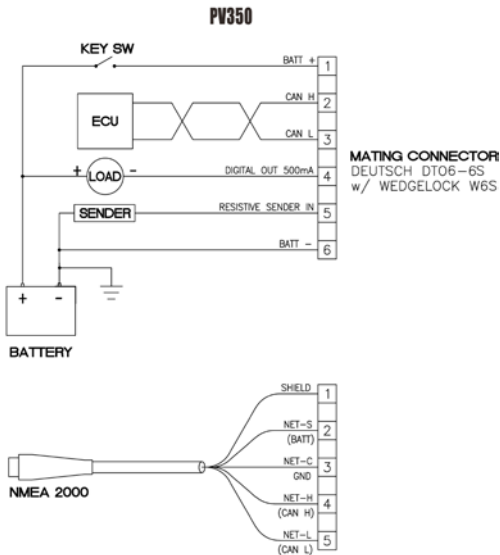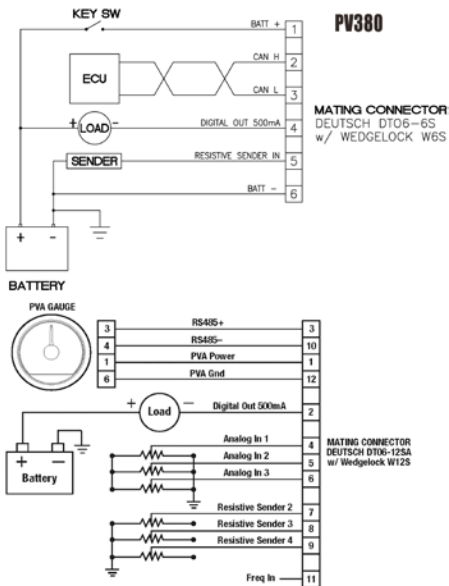
PV380 Mating Connector Part Numbers:

- 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

Wiring Diagram for PV380

PV350 and PV380 Features and Operations

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; set point triggered output for external piezo buzzer or shut-down relay.

Operations Manual

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

Specifications

Electrical

Display	3.8" monochrome LCD
Resolution	QVGA, 320 x 240 pixels
Orientation	Landscape
Backlighting	LED, white
Flash Memory	2Mb
RAM	256kb
Operating Voltage	6 - 36 VDC, protected against reverse polarity and load-dump
Power Consumption	10 W max
Communications	PV350: (2) CAN 2.0B 　　　　　NMEA 2000 isolated (second port) PV380: (1) CAN 2.0B 　　　　　(1) RS485 serial (Modbus)
Protocols	J1939, FreeForm CAN

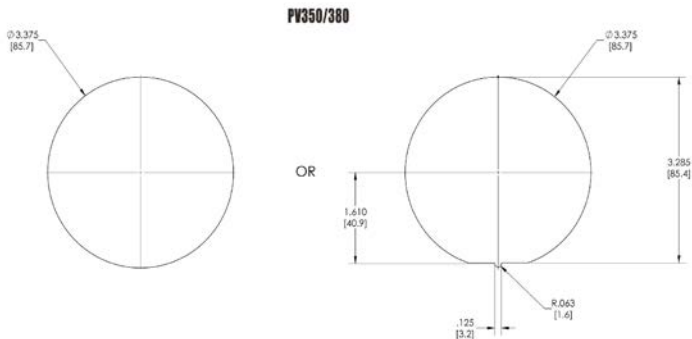| Connection	PV350: 6 pin Deutsch connector and 5 pin M12 connector PV380: 6 pin and 12 pin Deutsch DT series connectors
Keyboard	5 tactile buttons

Inputs	PV350: (1) resistive analog (backlight control)
	PV380: (4) resistive analog
	      (3) analog, 0-5V / 4-20 mA
	      (1) frequency, 2-10,000 Hz, 3.6-120 VAC

Output	PV350: (1) 500 mA; switched low-side PV380: (2) 500 mA; switched low-side

Environmental

Operating Temperature	-40º C to +85º C
Storage Temperature	-40º C to +85º C
Protection	IP67, front and back, IP66 panel seal

Standards Compliance	Electrical Safety: 2006/95/EC
	Electromagnetic Compatibility:
	• 2004/108/EC:
	  • EN 61000-6-4:2001 (emission)
	  • EN 61000-6-2:2001 (immunity)
	  • EN 50121-3-2 and EN 12895
	• SAE J1113/2, 4, 11, 12, 21, 24, 26 and 41

Vibration	Random vibration, 7.86 Grms (5.2000 Hz), 3 axes
Shock	+/- 50G in 3 axes

Mechanical

Case Material	PC/ABS

Mounting Hole Options

PV350/380

MOUNTING HOLE OPTIONS

Murphy Instrument Distributor
2005年开始在中国经销Murphy摩菲仪表

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