

ENVIROMUX-PS50/150

Pressure Switch Sensor (PS50= 0-50PSI, PS150= 0-150PSI)

Please read the following instructions before installing. A visual inspection of this product for damage during shipping is recommended.

GENERAL INFORMATION

WARNING

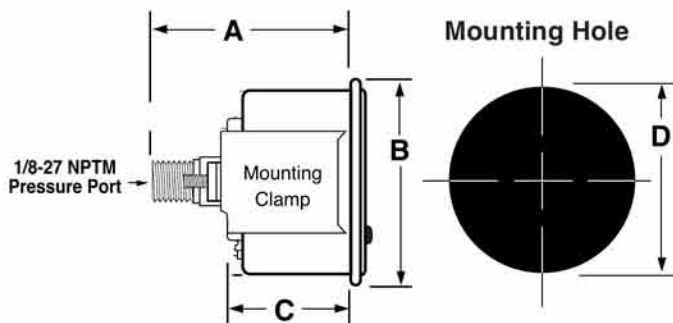
BEFORE BEGINNING INSTALLATION OF THIS PRODUCT

- ✓ Disconnect all electrical power to the machine.
- ✓ Make sure the machine cannot operate during installation.
- ✓ Follow all safety warnings of the machine manufacturer.
- ✓ Read and follow all installation instructions.

Description

The instrument is a diaphragm-actuated, pressure gage with a 1/8-27 NPTM port connection.

Typical Mounting Dimensions



A	2-9/16 (65)
B	2-1/4 (57)
C	1-1/4 (32)
D	2-1/16 (53)

NOTES: The dimensions above are in inches and (millimeters).
Wires are applied using screw terminals.

Panel Mounting

All models can be installed in a panel from 0.032 to 0.250 in. (1 to 6 mm) thick. Remove the mounting bracket and insert the gage from the front side of the panel. Replace bracket and secure it. Do **NOT** overtighten. (See Figure 2).

Connecting the Pressure Port

1. Pressure tubing is generally not provided. Use of good quality flexible pressure tubing/hose and fittings is strongly suggested. Use at least 3/16 in. (5 mm) I.D. tubing. If using copper or rigid tubing, install at least 12 in. (305 mm) flexible hose from the gage to the rigid tubing. This prevents damaging vibration from reaching the gage. For most models a pulsation orifice, within the pressure port, is provided and it is removable for cleaning (Figure 2).
2. Connect tubing to the 1/8-27 NPTM port. Use of non-hardening thread sealing compound is recommended although thread is "dry seal".

IMPORTANT: Make sure **NOT** to foul pressure orifices with sealant. **NEVER** exceed maximum pressure rating for the gage range; see chart below

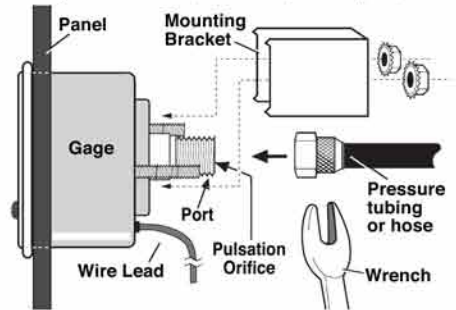


Figure 2

IMPORTANT:

For optimum performance, check this tool periodically: look for frozen pointers, kinked/worn tubing, broken wiring or loose connections; operate the contacts and watch for expected results. Replace damaged/worn parts; clean/repair as necessary. Check for correct/complete wiring, unbroken insulation and no accidental grounds. Do not run shut-down wires with ignition wiring. Check all tubing and connections for leaks.

Pressure Ranges and Factory Settings

Ranges Available		Maximum Pressure	Std. Settings		Hi Settings	
psi	Bar		psi	Bar	psi	Bar
0-50 (345)	3.5	100 psi (21 MPa)	10 (69)	0.8	40 (276)	2.8
0-150 (1.0 MPa)	10	300 psi (3.4 MPa)	30 (207)	2.0	120 (827)	8.0

Values in () are mathematical conversions from psi to kPa/MPa—they do not reflect second scale range. U.S.A. standard scale is psi/kPa; U.K. standard scale is psi/bar. Consult factory for other scales.



Products covered by this literature comply with EMC Council directive 89/336/EEC regarding electromagnetic compatibility except as noted.

Setting the instrument contacts

1. All contacts are set using a 1/16 in. hex wrench (Figure 5).
2. Observe the "normal operating" pressure readings. Set the contact slightly **below** minimum reading observed or slightly **above** minimum pressure recommended by equipment manufacturer.

Testing the Contacts

1. With equipment running; use a 1/16 in. hex wrench to rotate contact until it touches the pointer. **Do NOT force contact against the gage pointer.** Equipment should shut down and/or alarm should operate. *Reset the contact* (See Figure 5).
2. **VERY IMPORTANT** Each time you start the machine, observe that the gauge is indicating pressure. Visual inspection and regular testing should be normal procedure to ensure proper operation and to achieve maximum results from your instrument.

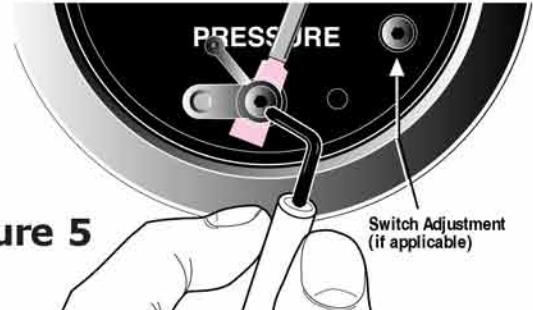
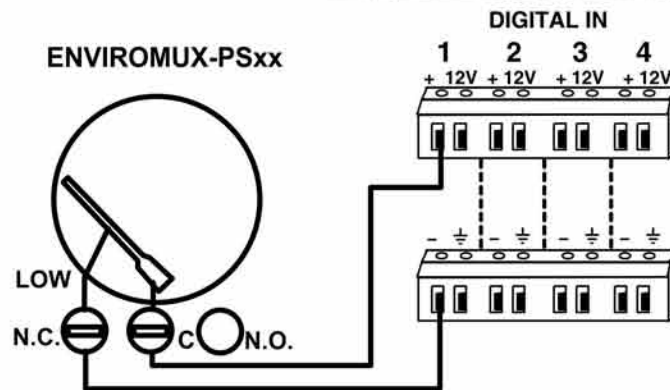


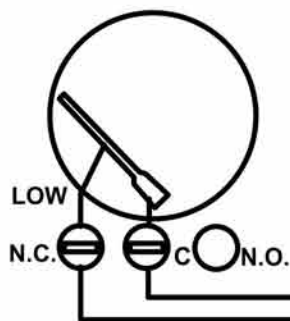
Figure 5

Wiring Installation

VIEW OF TERMINALS ON ENVIROMUX-16D

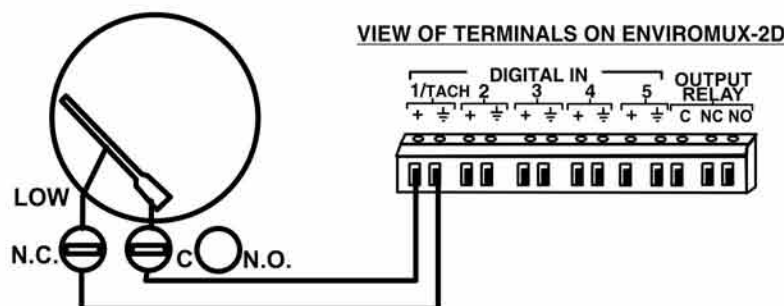


ENVIROMUX-PSxx



VIEW OF TERMINALS ON ENVIROMUX-5D

ENVIROMUX-PSxx



VIEW OF TERMINALS ON ENVIROMUX-2D