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E-PST500
PRESSURE SENSOR TRANSMITTER INSTALLATION INSTRUCTION

The E-PST500 Pressure Transmitter is ideal for OEMs with a 1% full scale accuracy sensor. The corrosion resistant 316L stainless steel wetted parts allow the transmitter to measure the pressure in a multitude of processes from hydraulic oils to chemicals.

FEATURES/BENEFITS

- NEMA 4X rated enclosure provides protection in harsh environments permitting outdoor monitoring or in areas where dust and particulate matter exists
- Robust 316 SS oil filled sensor provides shock and vibration resistance insuring stability in controlling pressure for process applications
- A wide range of models and connections that can meet pressure measurement specifications from low to very high. Contact an NTI product consultant for details.

APPLICATIONS

- Compressors
- Pumping systems
- Irrigation equipment
- Hydraulic
- Industrial process monitoring

Note: E-PST500 requires installation in conjunction with E-S5VDC Sensor Converter (sold separately)

Installation

1. Location: Select a location where the temperature of the transmitter will be between 0 and 175°F (-18 to 79°C). Distance from the receiver is limited only by total loop resistance. The tubing or piping supplying pressure to the unit can be practically any length required but long lengths will increase response time slightly.

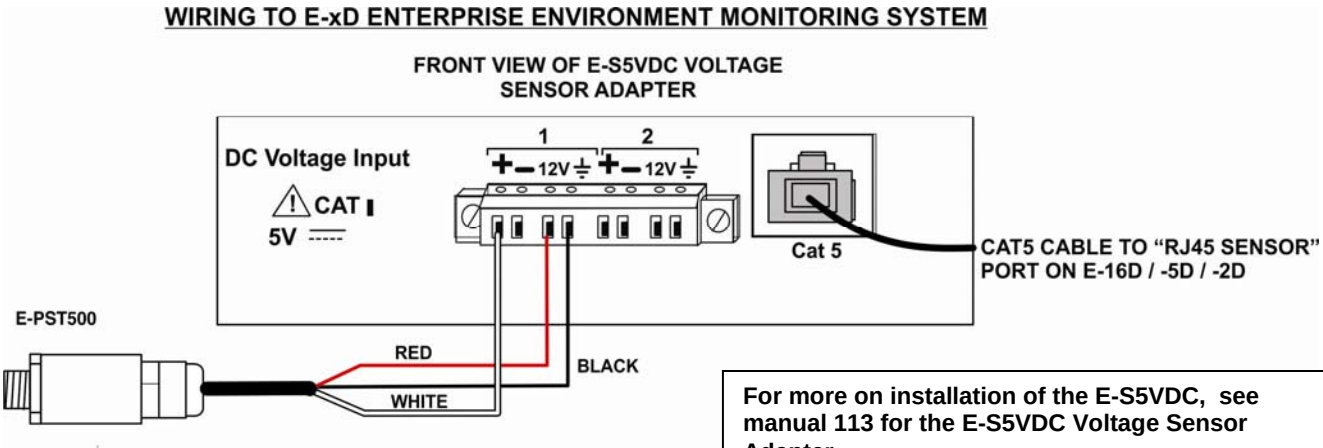
2. Position: The transmitter is not position sensitive. However this unit was originally calibrated with the unit in a position with the pressure connection downward. Although it can be used at other angles, for best accuracy it is recommended that it be installed in the position calibrated at the factory.

3. Pressure Connection: Use a small amount of plumber's tape or other suitable sealants to prevent leaks. Be sure the pressure passage inside the port is not blocked.

4. Electrical Connections

Wire Length -The maximum length of wire connecting the transmitter and voltage converter is a function of wire size and voltage converter resistance. Where wiring length is under 100 feet, wire as small as 22 AWG can be used.

Wire the E-PST500 to the E-S5VDC Voltage Sensor Adapter as shown in the diagram below.



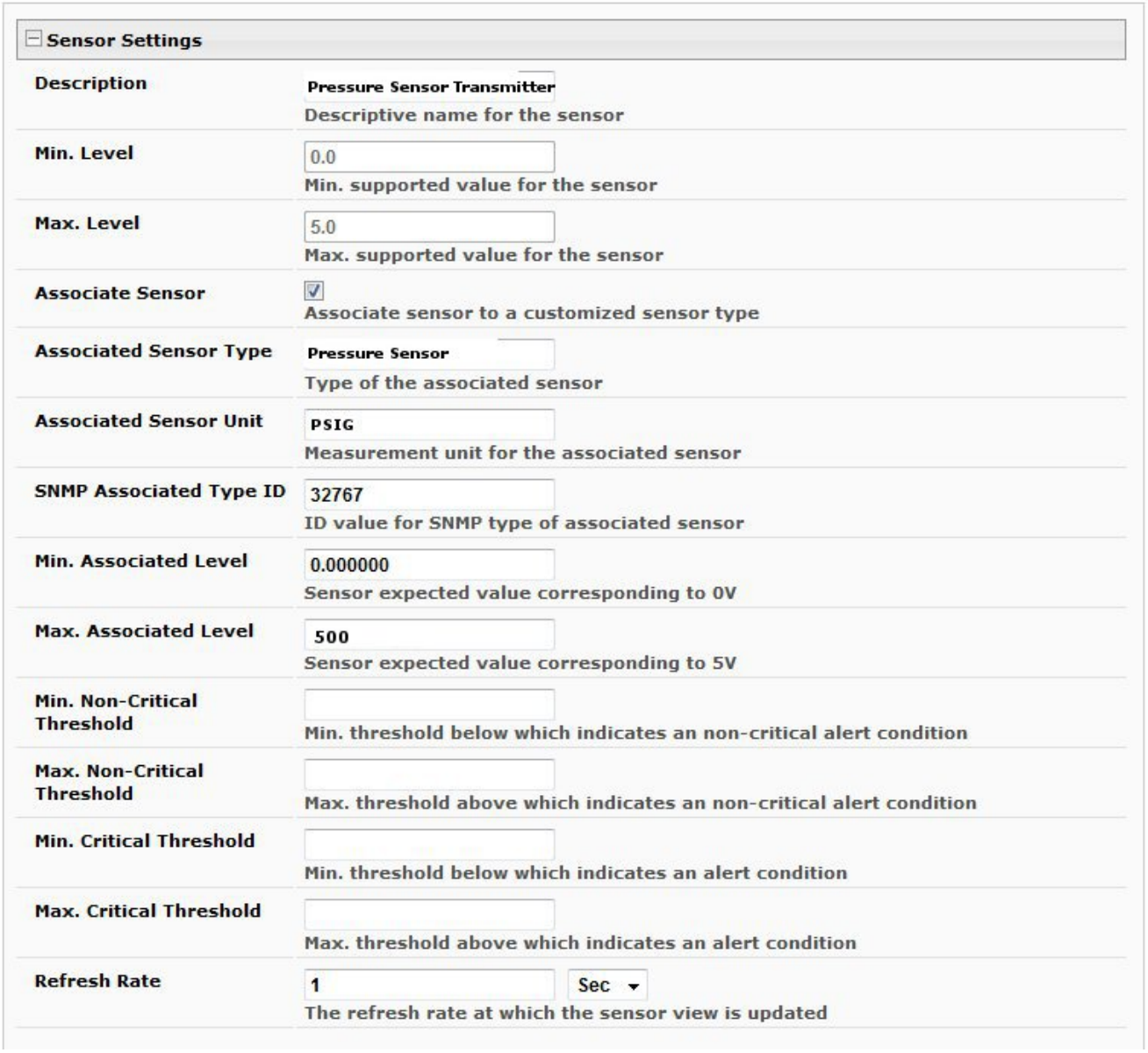
For more on installation of the E-S5VDC, see manual 113 for the E-S5VDC Voltage Sensor Adapter.

5. Connection to E-xD

Connect an 18-24AWG CAT5/5e/6 patch cable (up to 1,000 feet long) between the “Cat 5” port on the Voltage Sensor Adapter and an “RJ45 Sensor” port on the SYSTEM. (The use of smaller gauge CATx cabling will result in shorter distances that can be spanned.)

6. Web Interface Configuration in E-xD

Configure the SYSTEM to react to changes in the voltage from the sensor, as desired. See example on page 2.



EXAMPLE OF SENSOR CONFIGURATION PAGE

For more on sensor configuration and alert settings, see manual 154 for the E-xD Enterprise Environment Monitoring System.

SPECIFICATIONS

Pressure Range: 0-500 psig
Pressure Limits: Max. Pressure (psig) 1000; Max. Over Pressure (psig) 2500
Service: Compatible gases and liquids.
Wetted Materials: Type 316L SS.
Accuracy: 1.0% FS; 0.5% RSS
Temperature Limit: 0 to 200°F (-18 to 93°C).
Compensated Temperature Range: 0 to 175°F (-18 to 79°C).
Thermal Effect: ±0.02% FS/°F (includes zero and span).
Power Requirements: 10 to 30 VDC
Output Signal: 0 to 5 VDC
Response Time: 300 ms.
Loop Resistance: 5K Ohms
Stability: 1.0% FS/year (Typ.).
Current Consumption: 10 mA maximum
Electrical Connections: Cable gland with 3' of prewired cable
Process Connection: 1/2″ male NPT
Enclosure Rating: NEMA 4X (IP66).
Mounting Orientation: Mount in any position.
Weight: 10 oz (283 g).
Agency Approvals: CE.

CHANGES

The material in this guide is for information only and is subject to change without notice. Network Technologies Inc reserves the right to make changes in the product design without reservation and without notification to its users.

WARRANTY INFORMATION

The warranty period on this product (parts and labor) is two (2) years from date of purchase. Please contact Network Technologies Inc at (800) 742-8324 or 330-562-7070 for information regarding repairs and/or returns. A return authorization number is required for all repairs/returns.