

Model 299 Dri-Sense Pressure Transducer Termination Enclosure Installation Instructions

1.0 GENERAL INFORMATION

Thank you for purchasing Setra's Model 299 Dri-Sense Pressure Transducer Termination Enclosure. Prior to shipping, the cover w/desiccant has been wrapped in plastic and heat sealed to protect the desiccant from humidity during shipping, (see Photo 1).



Photo 1

After removing the packaging material, check contents to confirm all parts are enclosed (see Photo 2).

Note: Pipe mounting kit is included when ordered as an option.

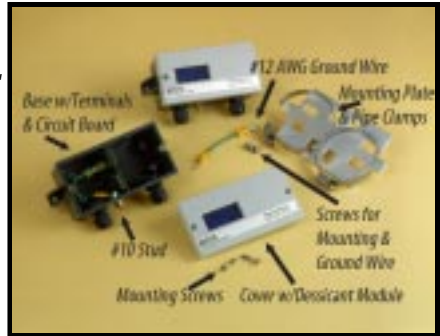


Photo 2

2.0 INTRODUCTION

The Model 299, designed with desiccant contained within the cover, is to be used in-line between a voltage or current pressure transducer and data acquisition system to capture and adsorb moisture, therefore, protecting the pressure transducer from the ingress of humidity.

You may have purchased the unit with either a terminal interface current or voltage circuit board. Additional circuit boards are available for a minimal charge to easily replace your current circuit board or to change from a current to voltage or voltage to current board. (*Note: Circuit board is surge protected for up to 2000 volts.*) Contact your local representative or Setra Systems' customer service department at (800) 257-3872 to order replacement circuit boards.

If you purchased a current unit, the input and excitation are as follows:

<u>Input</u>	<u>Excitation</u>
4 to 20 mA	5 to 33 VDC

If you purchased a voltage unit, the input and excitation are as follows:

<u>Input</u>	<u>Excitation</u>
DC Volts	0 to 6 VDC
or	
DC Volts	5 to 33 VDC

3.0 ELECTRICAL INSTALLATION

Wiring is through factory installed PG-9 Strain Reliefs. Wiring terminations are identified below the terminals (Diagram 1).

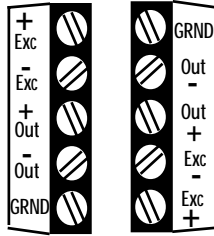


Diagram 1

NOTE: Prep Transducer and Data Acquisition Wires Prior to Wiring to the 299: Strip transducer cable back to expose wires and capillary vent tube. Tube should remain free and not crimped or pinched. Strip data acquisition cable to expose wires. CAUTION: Overtightening of the PG9 Strain Reliefs may pinch tube and cables.

3.1 Current Unit

The Model 299 (current input) - **Reverse polarity protected when used with a Setra pressure transducer.** The electrical connections are as follows:

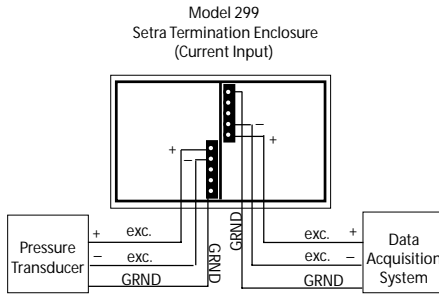


Diagram 2

3.2 Voltage Unit

The Model 299 (voltage input) electrical connections are as follows:

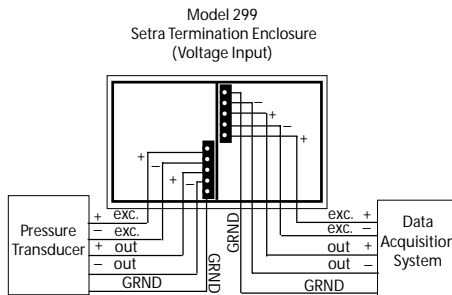


Diagram 3

4.0 ATTACHING COVER TO BASE

Screws are shipped in the same package as the cover. Remove screws from packaging and screw into predrilled holes in top of cover. (Screws are now permanently captured in cover.) Then screw cover onto base.

5.0 INSTALLING MODEL 299

5.1 Wall Mount

Insert screws (not provided) into tabs on base and screw into wall. A #12 AWG wire is recommended for attaching to earth ground.

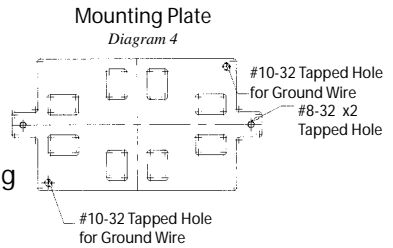
5.2 Pipe Mount (Option)

1. Thread clamps through slots provided on mounting plate for vertical or horizontal mounting.

2. Align the unit with the tabs on the mounting plate, and attach with screws provided. (see Diagram 4).

3. Connect #12 AWG ground wire to #10 stud, located at the bottom of the unit. Using screw provided, secure opposite end of wire to hole closest to the stud. (see Diagram 4).

4. Attach mounting plate to pipe with clamps, and connect to earth ground.



6.0 REUSABLE DESICCANT MODULE

The desiccant can be easily regenerated, or replaced. When the desiccant has adsorbed all the moisture it can hold, the user is alerted through the clearly visible desiccant status window, which changes from blue (dry) to pink (saturated). (Note: Life expectancy of the desiccant is approximately six months.)

Status Window



Dry (Blue)



Saturated (Pink)

6.1 Regenerate the Desiccant

The desiccant can be regenerated by removing the cover from the base and baking it in a conventional oven at 200°F for 3 to 4 hours or until it returns to its dry status (blue).

6.2 Replacing the Desiccating Cover

To ensure uninterrupted system operation, replacement covers with desiccant are available. Contact your local representative or Setra Systems' customer service department at (800) 257-3872 to order.

7.0 RETURNING PRODUCTS FOR REPAIR

Before returning the unit for repair, please contact a Setra application engineer (800-257-3872, 978-263-1400) to review information relative to your application . Many times only minor field adjustments may be necessary. When returning a product to Setra, the unit should be carefully packaged and shipped prepaid to:

Setra Systems, Inc.
159 Swanson Road
Boxborough, MA 01719-1304
Attn: Repair Department

To assure prompt handling, please supply the following information and include it inside the package or returned material:

1. Name and phone number of person to contact.
2. Shipping and billing instructions.
3. Full description of the malfunction.
4. Identify any hazardous material used with product.

Allow approximately 3 weeks after receipt at Setra for the repair and return of the unit. Non-warranty repairs will not be made without customer approval and a purchase order to cover repair charges.

Calibration Services

Setra maintains a complete calibration facility that is traceable to the National Institute of Standards & Technology (NIST). If you would like to recalibrate or recertify your Setra pressure transducers or transmitters, please call our Repair Department at 800-257-3872 (978-263-1400) for scheduling.

8.0 WARRANTY AND LIMITATION OF LIABILITY

SETRA warrants its products to be free from defects in materials and workmanship, subject to the following terms and conditions: Without charge, SETRA will repair or replace products found to be defective in materials or workmanship within the warranty period; provided that:

- a) the product has not been subjected to abuse, neglect, accident, incorrect wiring not our own, improper installation or servicing, or use in violation of instructions furnished by SETRA;
- b) the product has not been repaired or altered by anyone except SETRA or its authorized service agencies;
- c) the serial number or product code has not been removed, defaced, or otherwise changed; and
- d) examination discloses, in the judgement of SETRA, the defect in materials or workmanship developed under normal installation, use and service;
- e) SETRA is notified in advance of and the product is returned to SETRA transportation prepaid.

Unless otherwise specified in a manual or warranty card, or agreed to in a writing signed by a SETRA officer, SETRA pressure and acceleration products shall be warranted for one year from date of sale.

The foregoing warranty is in lieu of all warranties, express, implied or statutory, including but not limited to, any implied warranty of merchantability for a particular purpose.

SETRA's liability for breach of warranty is limited to repair or replacement, or if the goods cannot be repaired or replaced, to a refund of the purchase price. SETRA's liability for all other breaches is limited to a refund of the purchase price. In no instance shall SETRA be liable for incidental or consequential damages arising from a breach of warranty, or from the use or installation of its products.

No representative or person is authorized to give any warranty other than as set out above or to assume for SETRA any other liability in connection with the sale of its products.