Setra Differential Pressure Transducer Connection Instructions
for use with HOBO® H22 and U30 Series Data Loggers

Applies to these Setra Differential Pressure Transducers:

<table>
<thead>
<tr>
<th>Onset Part No.</th>
<th>Air Pressure Range</th>
<th>Output</th>
<th>Setra Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-SET-265-R25</td>
<td>0.25” WC</td>
<td>0-5V representing 0 to 0.25” WC</td>
<td>2651-R25WD-2B-T1-C-OC</td>
</tr>
<tr>
<td>T-SET-265-001</td>
<td>1” WC</td>
<td>0-5V representing 0 to 1” WC</td>
<td>2651-001WD-2B-T1-C-OC</td>
</tr>
<tr>
<td>T-SET-265-2R5</td>
<td>2.5” WC</td>
<td>0-5V representing 0 to 2.5” WC</td>
<td>2651-2R5WD-2B-T1-C-OC</td>
</tr>
<tr>
<td>T-SET-265-005</td>
<td>5” WC</td>
<td>0-5V representing 0 to 5” WC</td>
<td>2651-005WD-2B-T1-C-OC</td>
</tr>
<tr>
<td>T-SET-265-010</td>
<td>10” WC</td>
<td>0-5V representing 0 to 10” WC</td>
<td>2651-010WD-2B-T1-C-OC</td>
</tr>
</tbody>
</table>

This document provides instructions on connecting the Setra Differential Pressure Transducers listed above to either the FlexSmart™ Analog Module used with HOBO H22 series data loggers or to the Analog Sensor Port option used with HOBO U30 series loggers. It also lists configuration values used by HOBOware® Pro software to configure the logger for each transducer. Note: For information on connecting the differential pressure transducer to the pressure source, and other transducer details, refer to the documentation provided by Setra.

Required:

- Selected Setra Differential Pressure Transducer
- HOBO H22 or U30 Series Data Logger
- FlexSmart Analog Module, Onset Part No: S-FS-CVIA (for H22 series) or Analog Sensor Port option (for U30 series)
- HOBOware Pro Software, version 2.2.1 or higher (2.4.0 or higher for U30 series)
- Customer-supplied length of 18 AWG, shielded, 3-conductor cable (Belden 27334AS or equivalent recommended)

Connecting the Differential Pressure Transducer to the Analog Module or Port:

Configuring the Data Logger for the Differential Pressure Transducer, using HOBOware Pro Software:

Note: HOBOware Pro software provides configuration files for the transducers. The table below lists the recommended configuration values for each transducer that these files contain. For information on loading configuration files, refer to the software documentation.

<table>
<thead>
<tr>
<th>Onset Part No.</th>
<th>Channel Name</th>
<th>Warm-Up*</th>
<th>Measurement Type</th>
<th>Raw Value 1</th>
<th>Raw Value 2</th>
<th>Raw Units</th>
<th>Scaled Value 1</th>
<th>Scaled Value 2</th>
<th>Scaled Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-SET-265-R25</td>
<td>Diff Pressure</td>
<td>0.03 sec</td>
<td>Voltage</td>
<td>0</td>
<td>5</td>
<td>V</td>
<td>0</td>
<td>0.25</td>
<td>in WC</td>
</tr>
<tr>
<td>T-SET-265-001</td>
<td>Diff Pressure</td>
<td>0.03 sec</td>
<td>Voltage</td>
<td>0</td>
<td>5</td>
<td>V</td>
<td>0</td>
<td>1</td>
<td>in WC</td>
</tr>
<tr>
<td>T-SET-265-2R5</td>
<td>Diff Pressure</td>
<td>0.03 sec</td>
<td>Voltage</td>
<td>0</td>
<td>5</td>
<td>V</td>
<td>0</td>
<td>2.5</td>
<td>in WC</td>
</tr>
<tr>
<td>T-SET-265-005</td>
<td>Diff Pressure</td>
<td>0.03 sec</td>
<td>Voltage</td>
<td>0</td>
<td>5</td>
<td>V</td>
<td>0</td>
<td>5</td>
<td>in WC</td>
</tr>
<tr>
<td>T-SET-265-010</td>
<td>Diff Pressure</td>
<td>0.03 sec</td>
<td>Voltage</td>
<td>0</td>
<td>5</td>
<td>V</td>
<td>0</td>
<td>10</td>
<td>in WC</td>
</tr>
</tbody>
</table>

*Warm-up excitation power provided by the FlexSmart Analog Module and H22 (or Analog Sensor Port and U30).

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Manual Part No: MAN-SETRA
Doc No: 10275-D
Service and Support
HOBO products are easy to use and reliable. In the unlikely event that you have a problem with this instrument, contact the company where you bought the logger: Onset or an Onset Authorized Dealer. Before calling, you can evaluate and often solve the problem if you write down the events that led to the problem (are you doing anything differently?) and if you visit the Technical Support section of the Onset web site at www.onsetcomp.com/support.html. When contacting Onset, ask for technical support and be prepared to provide the product number and serial number for the logger and software version in question. Also completely describe the problem or question. The more information you provide, the faster and more accurately we will be able to respond.

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Mailing: PO Box 3450, Pocasset, MA 02559-3450
Phone: 1-800-LOGGERS (1-800-564-4377) or 508-759-9500
Fax: 508-759-9100
E-mail: loggerhelp@onsetcomp.com
Internet: www.onsetcomp.com

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Doc No: 10275-D
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