Veris Differential Pressure Transducer Connection Instructions

For use with HOBO® H22, U12, U30, UX120-006M, MX1104, MX1105, and RX3000 data loggers and HOBO ZW data nodes

Applies to these Veris Differential Pressure Transducers:

Onset Part No.	Air Pressure Range	Output	Veris Part No.
T-VER-PXU-L	0-10” WC	4-20mA (or 0-5V/0-10V) representing 0 to 10” WC	PXULX05S (LCD display)
T-VER-PXU-X	0-10” WC	4-20mA (or 0-5V/0-10V) representing 0 to 10” WC	PXUXX05S (no display)

This document provides instructions on connecting the Veris Differential Pressure Transducers listed above to each of the following:

- FlexSmart™ Analog Module used with HOBO H22 series data loggers
- Analog Sensor Port/Module used with HOBO U30 and RX3000 series data loggers
- Voltage adapter used with the U12, UX120-006M, MX1104, and MX1105 data loggers and ZW series data nodes

It also lists configuration values used by HOBO 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 Veris.

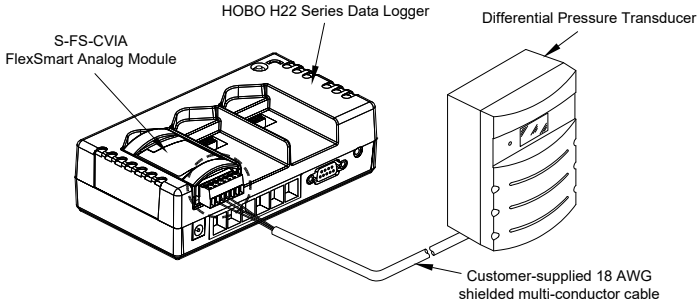
Veris Differential Pressure Transducer
(Onset Part No. T-VER-PXU-L shown)

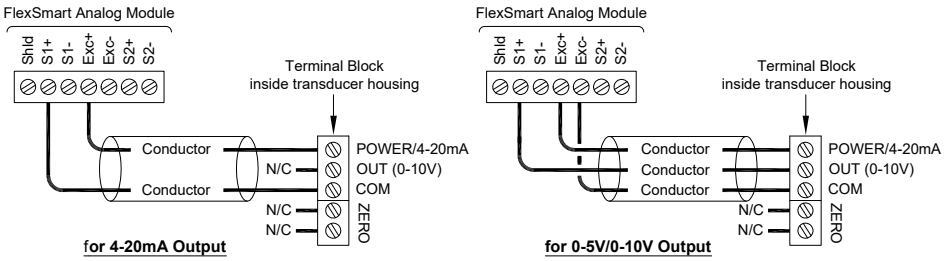
Required

- Selected Veris Differential Pressure Transducer
- HOBO H22, U12, U30, UX120-006M, MX1104, MX1105, or RX3000 data logger, or HOBO ZW data node
- FlexSmart Analog Module, S-FS-CVIA (for H22 series); Analog Sensor Port/Module option (for U30 and RX3000 series); voltage adapter, CABLE-ADAP5 or CABLE-ADAP10 (for U12, UX120-006M, MX1104, MX1105, or ZW series) or SD-VOLT-05 or SD-VOLT-10 (for MX1104 and MX1105)
- HOBOware® software, version 2.2.1 or higher for H22 or U12; 2.4.0 or higher for U30 series; 3.6 or higher for UX120-006M); HOBOware Pro 3.0 or higher for ZW series
- HOBOmobile for MX1104 and MX1105
- HOBOlink for RX3000 series data loggers
- Customer-supplied length of 18 AWG, shielded, multi-conductor cable

Connecting the Differential Pressure Transducer to the Analog Module or Port

H22 Connection





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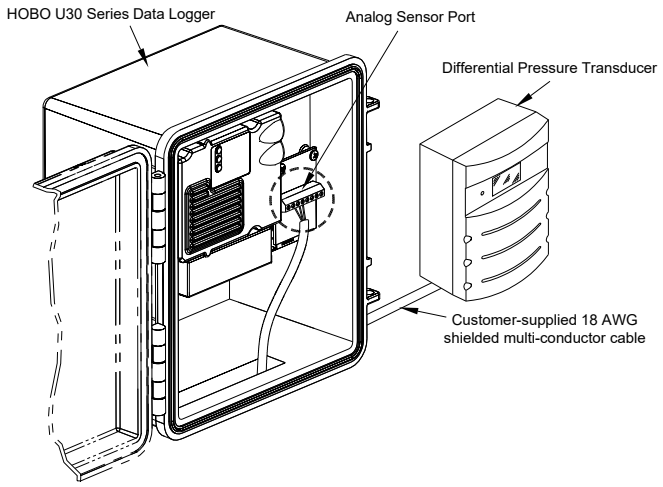
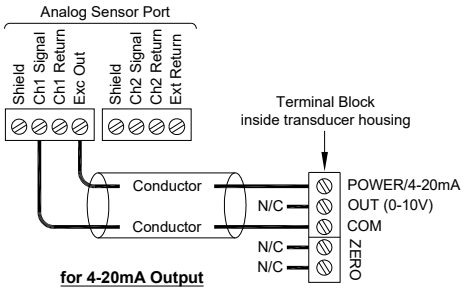
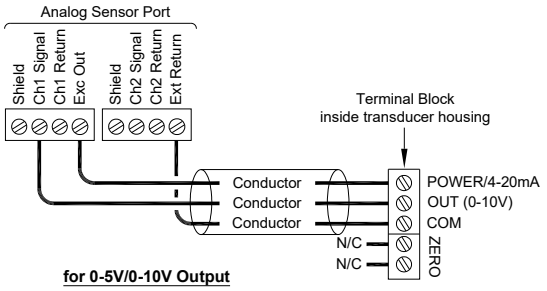
Veris Differential Pressure Transducer Connection Instructions

U30 or RX3000 Connection (U30 Shown)



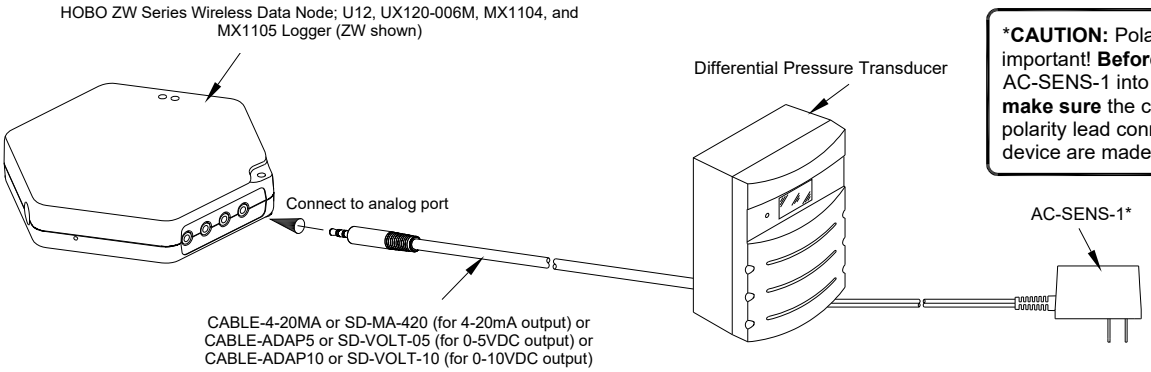


for 4-20mA Output

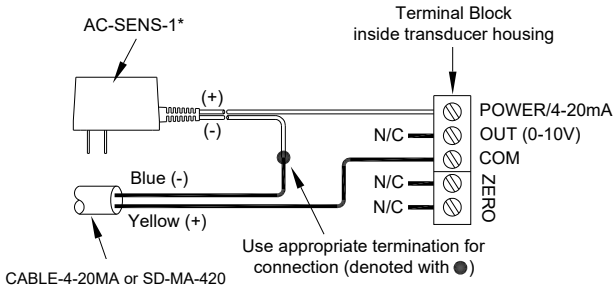


for 0-5V/0-10V Output

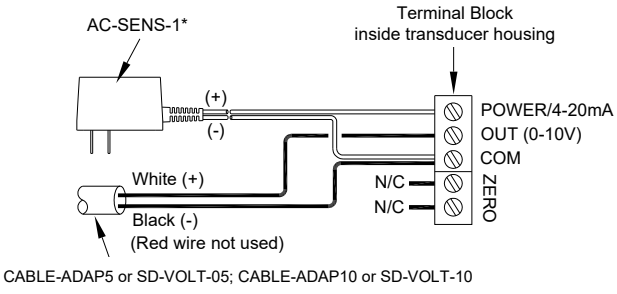
ZW, U12, UX120-006M, MX1104, and MX1105 Connection



***CAUTION:** Polarity is very important! **Before** plugging AC-SENS-1 into AC power, **make sure** the correct polarity lead connections to device are made as shown!



for 4-20mA Output



for 0-5V/0-10V Output

Configuring the Data Logger for the Differential Pressure Transducer using HOBOware Software

HOBOware software provides configuration files for the transducers. The table below lists the recommended configuration values that these files contain. For information on loading configuration files, refer to the software documentation. **Note:** You can also use these values when configuring scaling in HOBOlink or HOBOmobile.

Onset Part Nos.	Channel Name	Warm-Up	Measurement Type	Raw Value 1	Raw Value 2	Raw Units	Scaled Value 1	Scaled Value 2	Scaled Units
T-VER-PXU-L and T-VER-PXU-X	Diff Pressure	20 sec	Current	4	20	mA	0	0.1 (or 0.25, 0.5, 1, 2.5, 5, or 10)	in WC
			Voltage	0	5 (or 10)	V			

Notes:

- Excitation power provided by the FlexSmart Analog Module (S-FS-CVIA) with H22; by the Analog Sensor Port/Module with U30 and RX3000; and by power adapter (AC-SENS-1) with ZW, U12, UX120-006M, MX1104, or MX1105.
- Both differential pressure transducer models have switch-selectable ranges and scales, as listed.