

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

Onset Part No.	Air Pressure Range	Output	Veris Part No.
T-VER-PX3UL	0-10" WC	4-20mA (or 0-5V/0-10V) representing 0 to 10" WC	PX3ULX05

- 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



The image shows a VERIS DP-100 Differential Pressure Transducer. It is a compact, rectangular device with a grey faceplate and a black mounting bracket. The faceplate features a small LCD display screen, the text "Differential Pressure Transducer", and the VERIS logo. The device is connected to a black pipe fitting at the bottom and has two yellow O-rings visible on the right side.

- 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

The diagram illustrates the connection of a HOB0 H22 Series Data Logger to a Differential Pressure Transducer. The logger is connected to the transducer via a customer-supplied 18 AWG shielded multi-conductor cable. The transducer's terminal block is connected to the FlexSmart Analog Module, which is configured for a 4-20mA output.

**FlexSmart Analog Module**

Terminal Block inside transducer housing

Conductor

Conductor

V+/PWR

V-/GND

VOUT

N/C

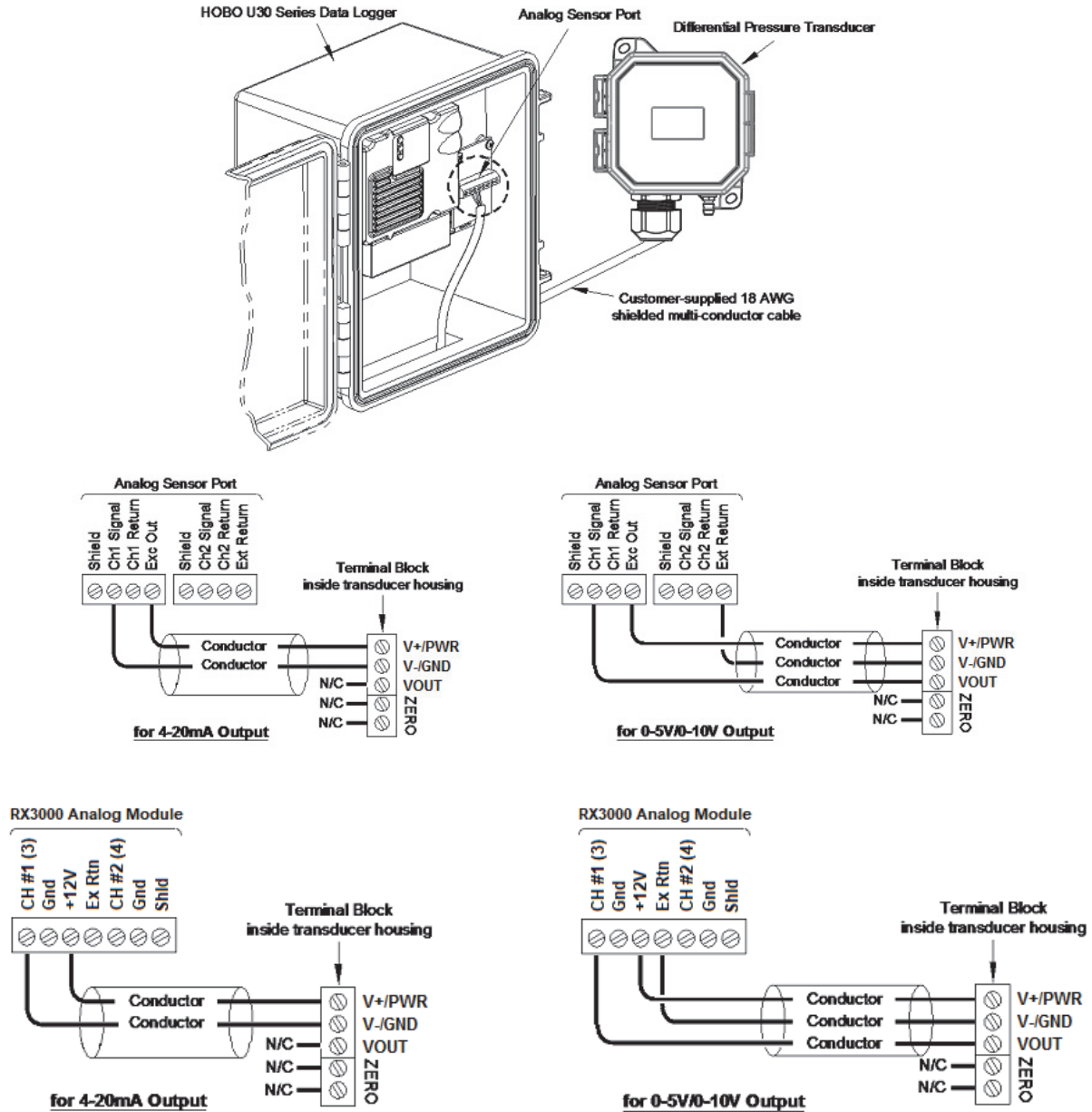
N/C

N/C

for 4-20mA Output

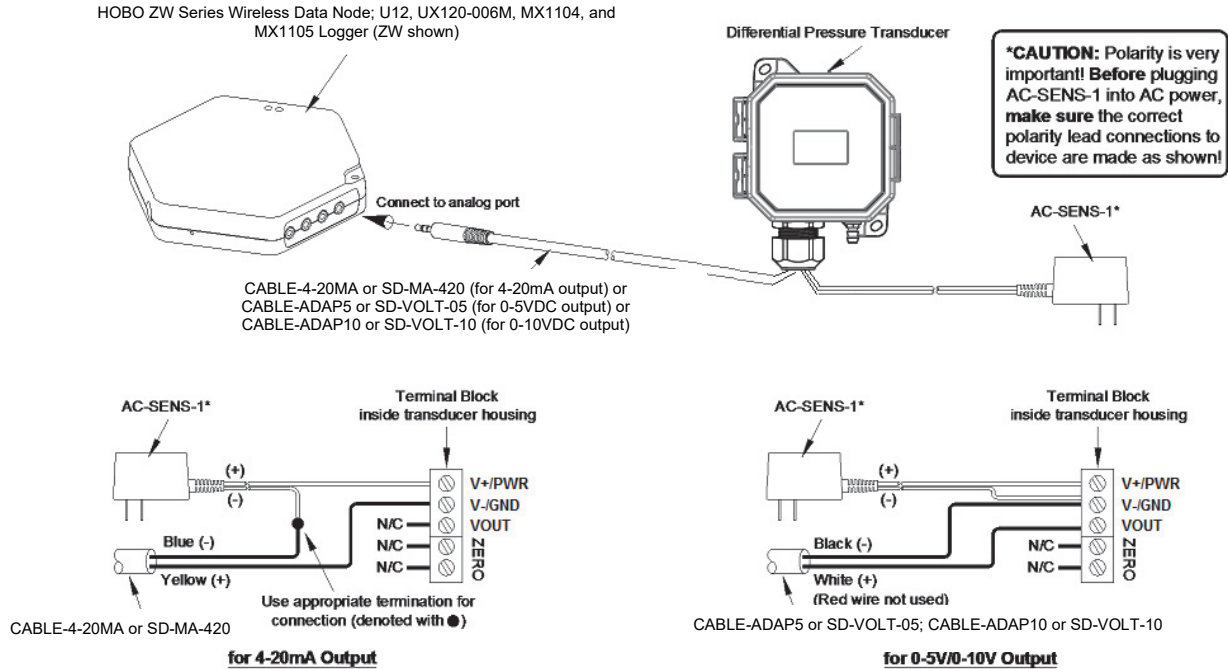
## Veris Differential Pressure Transducer Connection Instructions

### U30 or RX3000 Connection (U30 Shown)



## Veris Differential Pressure Transducer Connection Instructions

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



### Configuring the Data Logger for the Differential Pressure Transducer using HOBOWare

Use the following recommended scaling values if you are using HOBOWare or HOBOLink:

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-PX3UL	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			
	Velocity	20 sec	Current	4	20	mA	0	500, 1000, 2000, 3000, 4000, 5000, 6000, or 7000	ft/min
			Voltage	0	5 (or 10)	V			

Use the following recommended scaling values if you are using HOBOMobile on iOS with an MX1104 or MX1105 logger:

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-PX3UL	Diff Pressure	20 sec	Current	0	20	mA	-0.025, -0.0625, -0.125, -0.25, -0.625, -1.25, or -2.5	0.1, 0.25, 0.5, 1, 2.5, 5, or 10	in WC
			Voltage	0	5 (or 10)	V			
	Velocity	20 sec	Current	0	20	mA	-125, -250, -500, -750, -1000, -1250, -1500, or -1750	500, 1000, 2000, 3000, 4000, 5000, 6000, or 7000	ft/min
			Voltage	0	5 (or 10)	V			

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### **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.
- Refer to the software documentation for more details on setting up scaling.