

Veris DC Current Bi-Polar Transducer (CT) Connection Instructions

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

Applies to this Veris CT:

Onset Part No.	Current Range	Output	Veris Part No.
T-VER-971BP-200	0±200 Amps DC	Bi-polar 4-20mA -200 to +200 Amp	H971



Installing CT in an energized electrical enclosure or on any energized conductor can result in severe injury or death. This CT is for installation by qualified personnel only. To avoid electrical shock, do not perform any installation or servicing of this CT unless you are qualified to do so. Disconnect and lock-out all power sources during installation and servicing. Please read transducer user's manual for instructions and use.

This document provides instructions on connecting the Veris CT listed above to each of the following:

- FlexSmart™ Analog Module used with HOBO H22 series data loggers
- Analog Sensor Port used with HOBO U30 series data loggers
- 4-20mA cable used with the U12 and UX120-006M data loggers and ZW series data nodes

It also lists configuration values used by HOBOWare® Pro software to configure the logger for CT.



Veris DC Current Bi-Polar Transducer

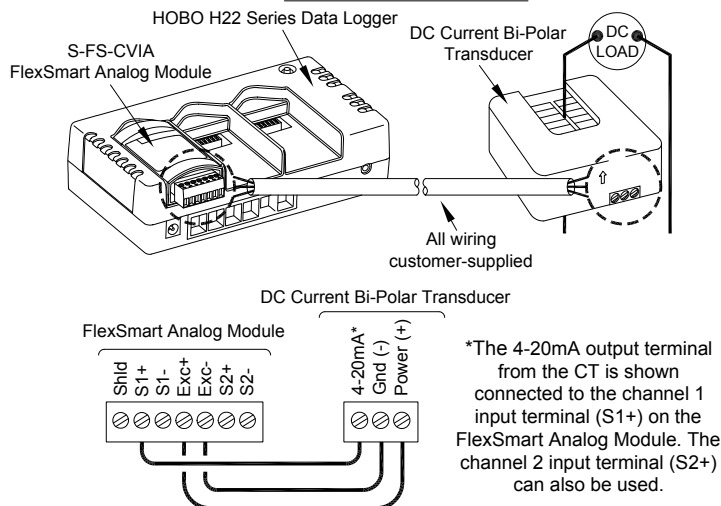
Required:

- Veris CT listed above
- HOBO H22, U12, U30, or UX120-006M data logger, or HOBO ZW data node
- FlexSmart Analog Module, Onset Part No: S-FS-CVIA (for H22 series); Analog Sensor Port option (for U30 series); 4-20mA cable, Onset Part No. CABLE-4-20mA (for U12, UX120-006M, or ZW series)
- HOBOWare Pro Software, version 2.2.1 or higher (2.4.0 or higher for U30 series; 3.0 or higher for ZW series; 3.6 or higher for UX120-006M)
- Customer-supplied lengths of hook-up wire

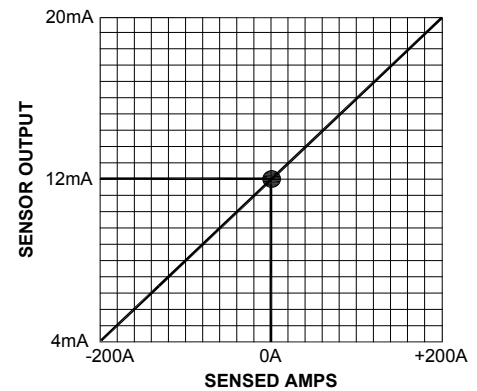
Connecting the CT to the Analog Module or Port:

Choose a location for the sensor. The monitored conductor must pass through the iris, and the sensor must be at least 1/2 inch from any conductors as enclosure can reach 87°C during operation (at 60°C ambient temperature).

H22 Connection

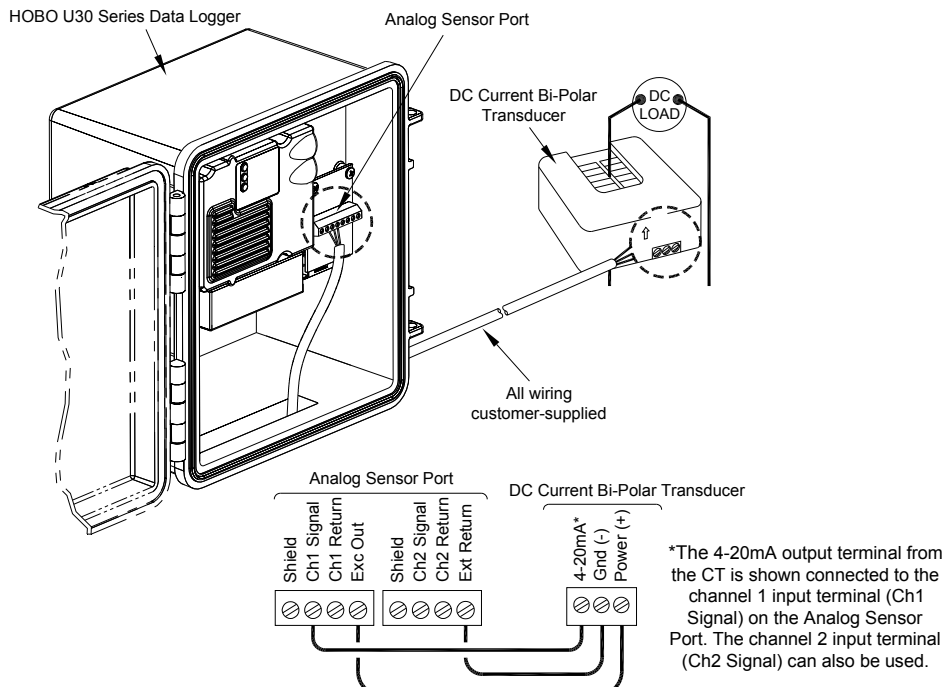


Scaling

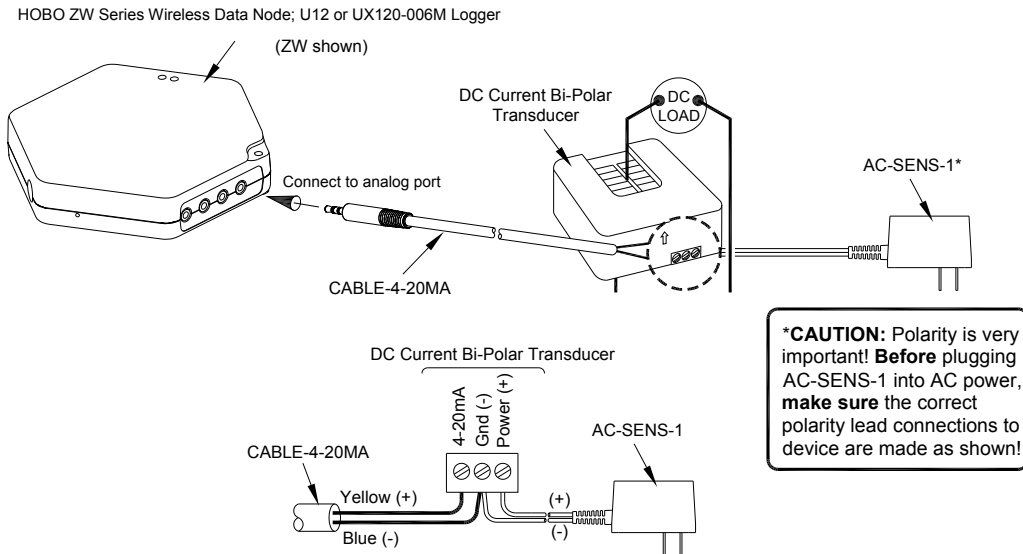


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U30 Connection



ZW, U12, and UX120-006M Connection



Configuring the Data Logger for the CT, using HOBOWare Pro Software:

HOBOWare Pro software provides a configuration file for the CT. The table below lists the recommended configuration values that this file contains. For information on loading configuration files, refer to the software documentation.

Channel Name	Raw Value 1	Raw Value 2	Scaled Value 1	Scaled Value 2	Scaled Units	Min. Warm-up Time
Current	4mA	20mA	-200	200	A	8-10 sec.

Notes:

- The CT requires 12-24VDC @ 35 to 110 mA excitation power depending on DC current load. Power can be supplied by the FlexSmart Analog Module (Onset Part No. S-FS-CVIA) with H22; by the Analog Sensor Port with U30; and by power adapter (Onset Part No. AC-SENS-1) with ZW, U12, or UX120-006M.
- For currents over 120 Amps, supply voltage to CT must be at least 15V to maintain accuracy.