Continental Control Systems (CCS) ACT Series Split-Core Current Transformer (CT) Connection Instructions

For use with HOBO® H22 and U30 Series Data Loggers

Applies to these CCS ACT Series CTs

Onset Part No.	Rated Current	Output	CCS Part No.
T-ACT-0750-020	20 Amps	0-333mV AC representing 0 to 20 Amps AC	ACT-0750-020
T-ACT-0750-050	50 Amps	0-333mV AC representing 0 to 50 Amps AC	ACT-0750-050
T-ACT-0750-100	100 Amps	0-333mV AC representing 0 to 100 Amps AC	ACT-0750-100
T-ACT-0750-250	250 Amps	0-333mV AC representing 0 to 250 Amps AC	ACT-0750-250

⚠ DANGER!—HIGH VOLTAGE HAZARD

Installing CTs in an energized electrical enclosure or on any energized conductor can result in severe injury or death. These CTs are for installation by qualified personnel only. To avoid electrical shock, do not perform any installation or servicing of these CTs unless you are qualified to do so. Disconnect and lock-out all power sources during installation and servicing.

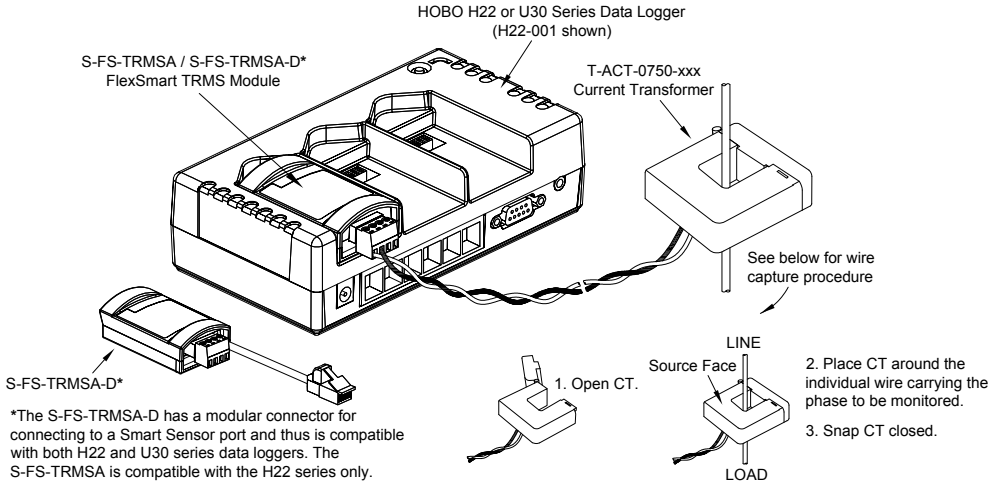
This document provides instructions on connecting the CCS ACT series CTs listed above to the FlexSmart™ TRMS Module used with either HOBO H22 or U30 series data loggers. It also lists configuration values used by HOBOware® Pro software to configure the logger for each CT.

Required

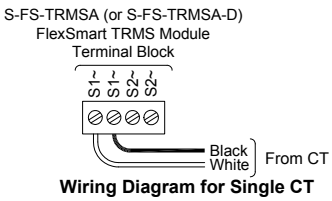
- Selected CCS ACT series CT
- HOBO H22 or U30 Series Data Logger
- FlexSmart TRMS Module, Onset Part No: S-FS-TRMSA (for H22 series only) or S-FS-TRMSA-D (for H22 and U30 series)
- HOBOware Pro Software, version 3.5 or higher

CSS Accu-CT
Split-Core Current Transformer

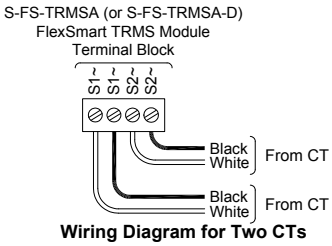
Connecting the CT to the FlexSmart TRMS Module



*The S-FS-TRMSA-D has a modular connector for connecting to a Smart Sensor port and thus is compatible with both H22 and U30 series data loggers. The S-FS-TRMSA is compatible with the H22 series only.



Wiring Diagram for Single CT



Wiring Diagram for Two CTs

Configuring the Data Logger for the CT, using HOBOware Pro Software

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

Onset Part No:	Channel Name	Raw Value 1 (mV)	Raw Value 2 (mV)	Scaled Value 1	Scaled Value 2	Scaled Units
T-ACT-0750-020	Current	0	333.33	0	20	A
T-ACT-0750-050	Current	0	333.33	0	50	A
T-ACT-0750-100	Current	0	333.33	0	100	A
T-ACT-0750-250	Current	0	333.33	0	250	A