

Magnelab Mini AC Current Transformer (CT) Connection Instructions

For use with HOBO® H22, U30, and RX3000 Series Data Loggers

Applies to these Magnelab CTs

Onset Part No.	Rated Current	Output	Magnelab Part No.
T-MAG-0400-05	5 Amps	0-333mV AC representing 0 to 5 Amps AC	SCT-0400-005
T-MAG-0400-20	20 Amps	0-333mV AC representing 0 to 20 Amps AC	SCT-0400-020
T-MAG-0400-50	50 Amps	0-333mV AC representing 0 to 50 Amps AC	SCT-0400-050
T-MAG-0400-75	75 Amps	0-333mV AC representing 0 to 75 Amps AC	SCT-0400-075



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 Magnelab CTs listed above to the FlexSmart™ TRMS Module used with either HOBO H22, U30, or RX3000 series data loggers. It also lists configuration values used by HOBOWare® software to configure the logger for each CT.

Required

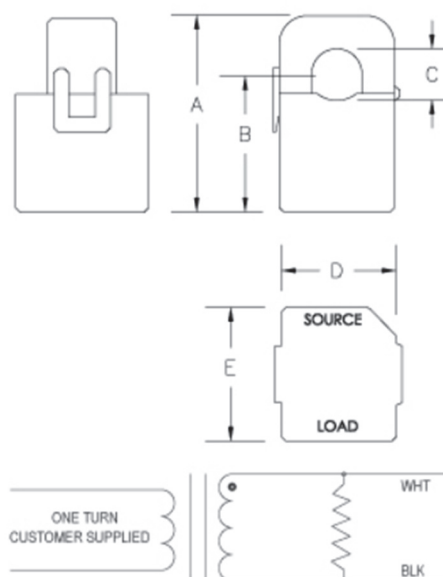
- Selected Magnelab CT
- HOBO H22, U30, or RX3000 series data logger
- FlexSmart TRMS Module, Onset Part No: S-FS-TRMSA (for H22 series only) or S-FS-TRMSA-D (for H22, U30, or RX3000 series)
- HOBOWare software, version 2.2.1 or higher (2.4.0 or higher for U30 series)
- HOBOLink (for RX3000 series)



Magnelab Mini AC Current Transformer

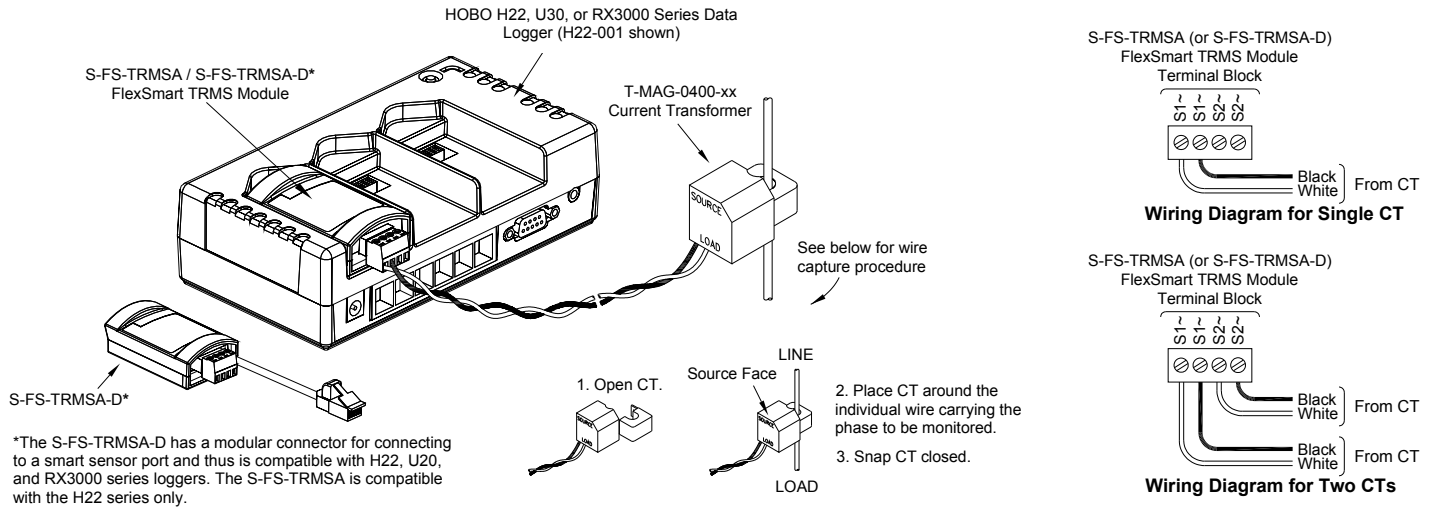
Dimensions

Dimensions	
A	3.962 cm (1.56 in.)
B	2.54 cm (1.00 in.)
C	1.016 cm (0.40 in.)
D	2.54 cm (1.00 in.)
E	2.667 cm (1.05 in.)



Magnelab Mini AC Current Transducer (CT) Connection Instructions

Connecting the CT to the FlexSmart TRMS Module



Configuring the Data Logger for the CT using HOBOWare Software

HOBOWare 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-MAG-0400-05	Current	0	333	0	5	A
T-MAG-0400-20	Current	0	333	0	20	A
T-MAG-0400-50	Current	0	333	0	50	A
T-MAG-0400-75	Current	0	333	0	75	A