

Veris 480 Volt, 100 Amp, 3-Phase kW Power 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 this Veris kW Power Transducer:

Onset Part No.	Rating	Output	Veris Part No.
T-VER-8044-100	208-480 Volt, 100 Amp	4-20mA representing 0 to 83.14 kW	8044-0100-2



DANGER!—HIGH VOLTAGE HAZARD



Installing transducer in an energized electrical enclosure or on any energized conductor can result in severe injury or death. This transducer is for installation by qualified personnel only. To avoid electrical shock, do not perform any installation or servicing of this transducer 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 kW Power Transducer 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
- 4-20mA cable 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 the transducer. **Note:** For information on connecting the kW power transducer to the power source, and other transducer details, refer to the documentation provided by Veris.



Veris kW Power Transducer

Required:

- Veris kW Power Transducer listed above
- 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); 4-20mA cable, CABLE-4-20mA (for U12, UX120-006M, MX1104, MX1105, or ZW series) or SD-MA-420 (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, twisted pair cable (Belden 1120A or equivalent recommended)

Veris 480 Volt, 100 Amp, 3-Phase kW Power Transducer Connection Instructions

Configuring the Data Logger for the kW Power Transducer using HOBOSoftware

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

Channel Name	Warm Up	Measurement Type	Raw Value 1	Raw Value 2	Raw Units	Scaled Value 1	Scaled Value 2	Scaled Units
Power	0.1 sec	Current	4	20	mA	0	83.14	kW

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

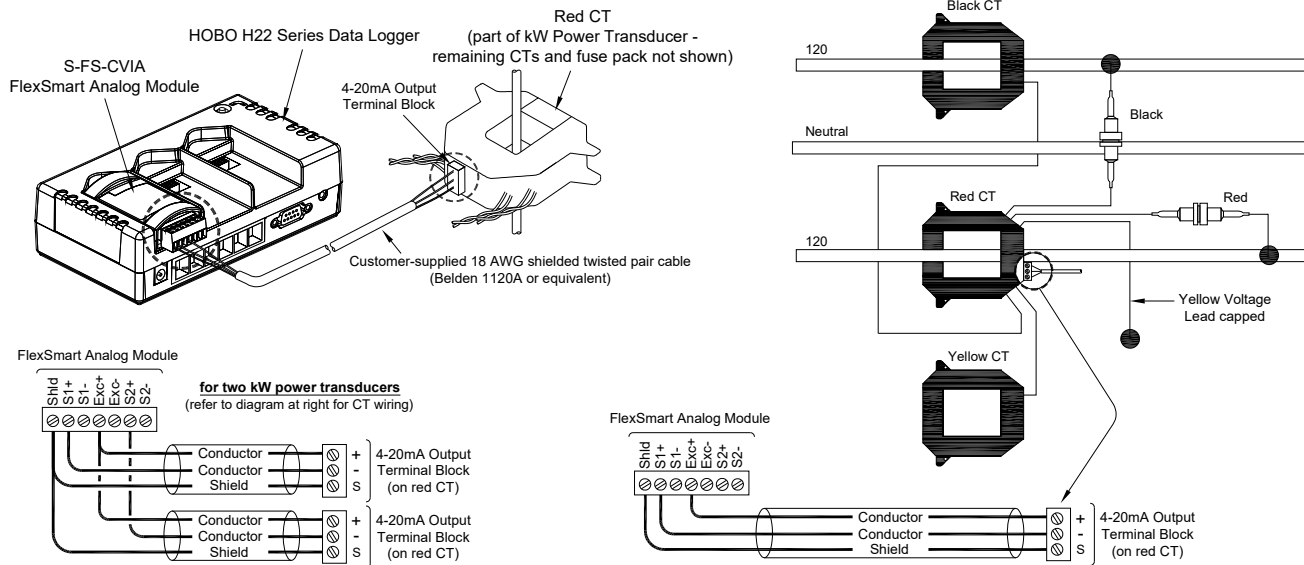
Channel Name	Warm Up	Measurement Type	Raw Value 1	Raw Value 2	Raw Units	Scaled Value 1	Scaled Value 2	Scaled Units
Power	0.1 sec	Current	0	20	mA	-20.785	83.14	kW

Note: 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. Refer to the software documentation for more details on setting up scaling.

Connecting the Veris kW Power Transducer to the Analog Module or Port

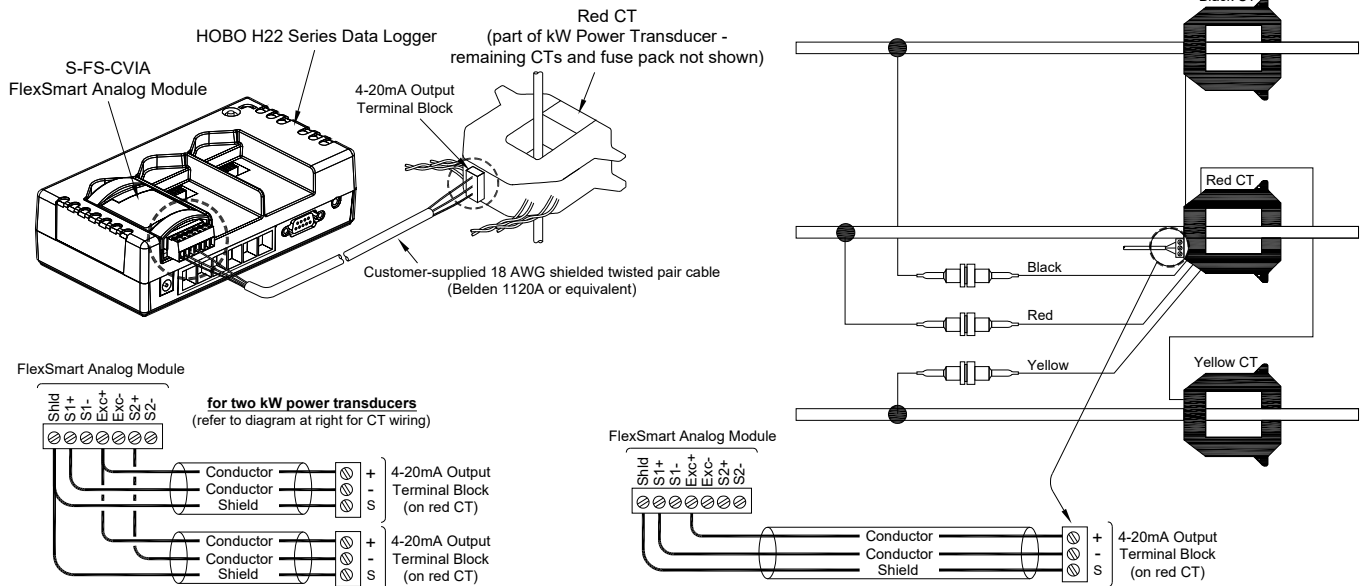
See the following pages for applicable connection diagrams that correspond to your electrical power configuration.

H22 Typical 240 VAC Single-Phase Three-Wire Connection

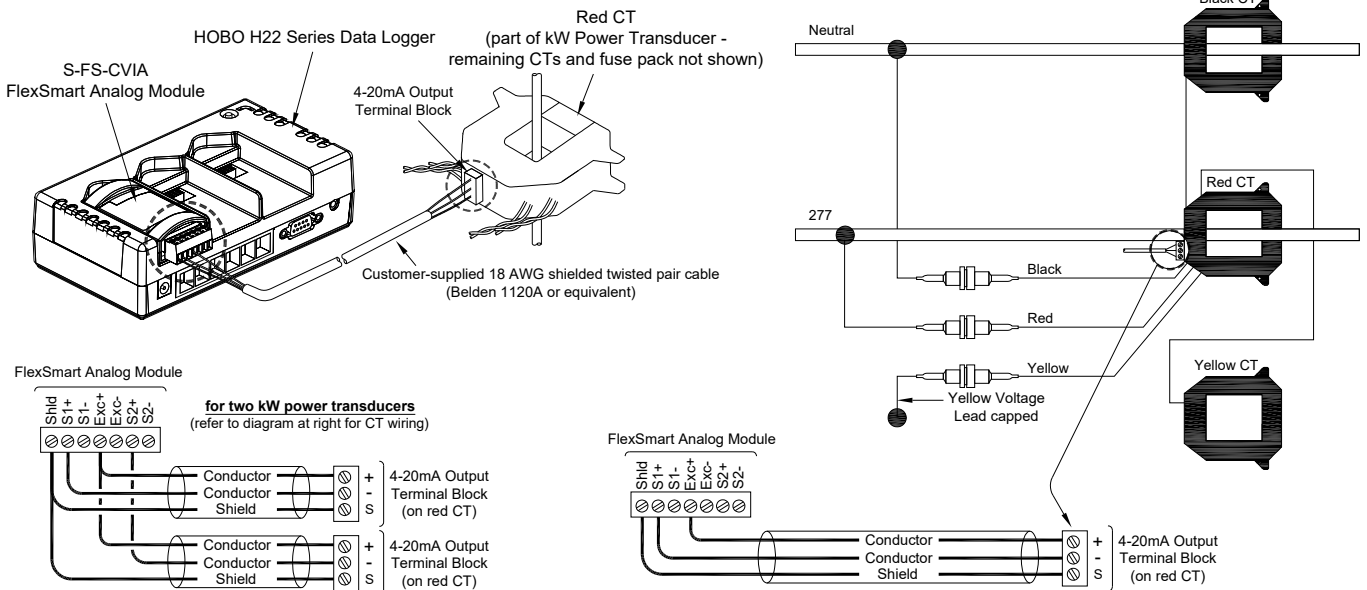


Veris 480 Volt, 100 Amp, 3-Phase kW Power Transducer Connection Instructions

H22 Typical 208 or 480 VAC Three-Phase Three/Four-Wire Connection



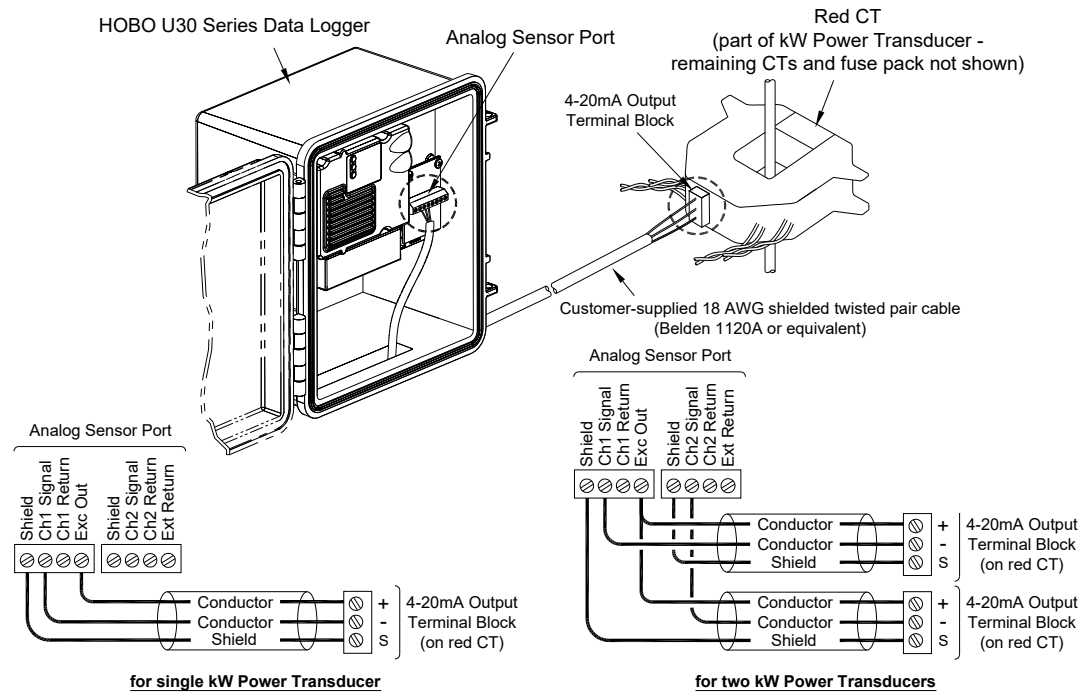
H22 Typical 277 VAC Single-Phase Two-Wire Connection



Veris 480 Volt, 100 Amp, 3-Phase kW Power Transducer Connection Instructions

U30 or RX3000 Connection (U30 shown)

(also refer to the appropriate CT wiring diagram in the H22 connection section for your particular electrical power configuration)



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

(also refer to the appropriate CT wiring diagram in the H22 connection section for your particular electrical power configuration)

