

Degree Controls Air Velocity and Temperature Sensor Connection Instructions

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

Applies to these Degree Controls Air Velocity and Temperature Sensors:

Onset Part No.	Output	Degree Controls Part No.
T-DCI-F300-1A3	0–5 VDC representing 0.15 to 1 m/s (30 to 200 fpm) or 0° to 100°C (32° to 212°F)	F300-1-A-3 (standard tube body type)
T-DCI-F300-1B3	0–5 VDC representing 0.5 to 10 m/s (100 to 2000 fpm) or 0° to 100°C (32° to 212°F)	F300-1-B-3 (standard tube body type)
T-DCI-F300-1C3	0–5 VDC representing 1.0 to 20 m/s (200 to 4000 fpm) or 0° to 100°C (32° to 212°F)	F300-1-C-3 (standard tube body type)
T-DCI-F350-W5A3	0–5 VDC representing 0.15 to 1 m/s (30 to 200 fpm) or 0° to 100°C (32° to 212°F)	F350-W5-A-3 (remote sensor head, long tube body type)
T-DCI-F350-W5B3	0–5 VDC representing 0.5 to 10 m/s (100 to 2000 fpm) or 0° to 100°C (32° to 212°F)	F350-W5-B-3 (remote sensor head, long tube body type)
T-DCI-F350-W5C3	0–5 VDC representing 1.0 to 20 m/s (200 to 4000 fpm) or 0° to 100°C (32° to 212°F)	F350-W5-C-3 (remote sensor head, long tube body type)

This document provides instructions on connecting the Degree Controls Air Velocity and Temperature Sensors 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
- Voltage adapter used with the U12 and UX120-006M data loggers and ZW series data nodes

It also lists configuration values used by HOBOWare® software to configure the logger for each sensor. **Note:** For sensor details, refer to the documentation provided by Degree Controls. Be sure to remove the connector on the sensor before attaching it to the logger.



Degree Controls Air Velocity and Temperature Sensor
(Onset Part No. T-DCI-F300-1x3 shown)

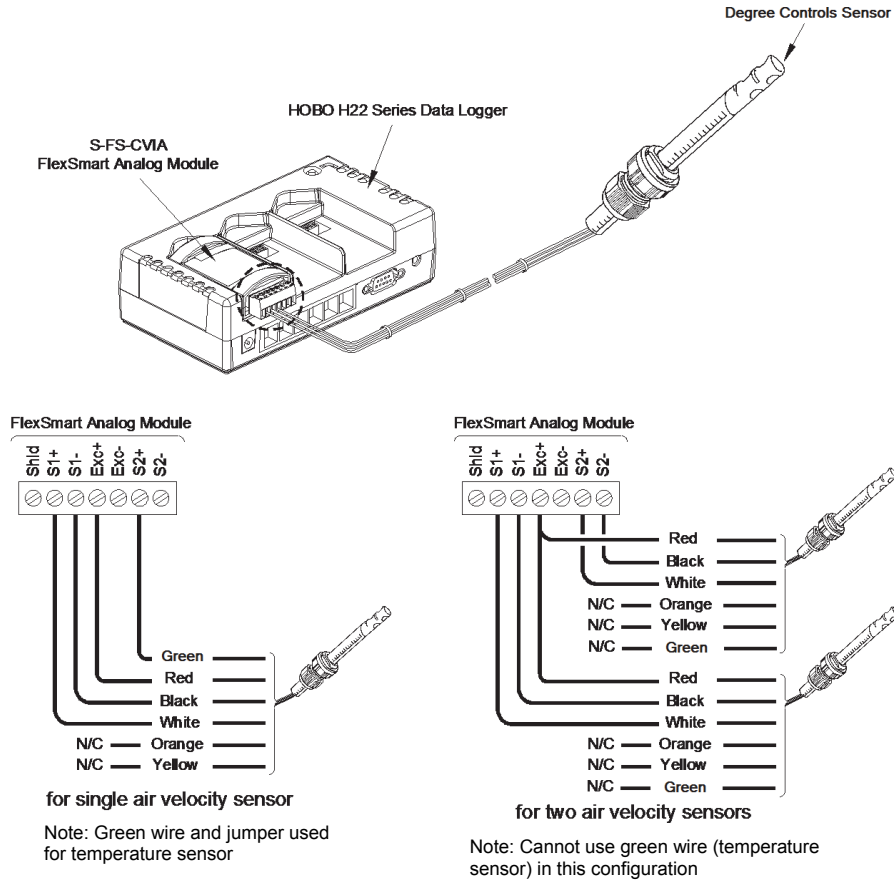
Required

- Selected Degree Controls Air Velocity and Temperature sensor
- HOBO H22, U12, U30, UX120-006M, or RX3000 series data logger, or HOBO ZW data node
- FlexSmart Analog Module, Onset Part No. S-FS-CVIA (for H22 series); Analog Sensor Port/Module option (for U30 and RX3000 series); voltage adapter, Onset Part No. CABLE-ADAP5 (for U12, UX120-006M, or ZW series)
- HOBOWare software, version 2.2.1 or higher (2.4.0 or higher for U30 series; 3.6 or higher for UX120-006M); HOBOWare Pro 3.0 or higher for ZW series
- HOBOLink (for RX3000 series data loggers)

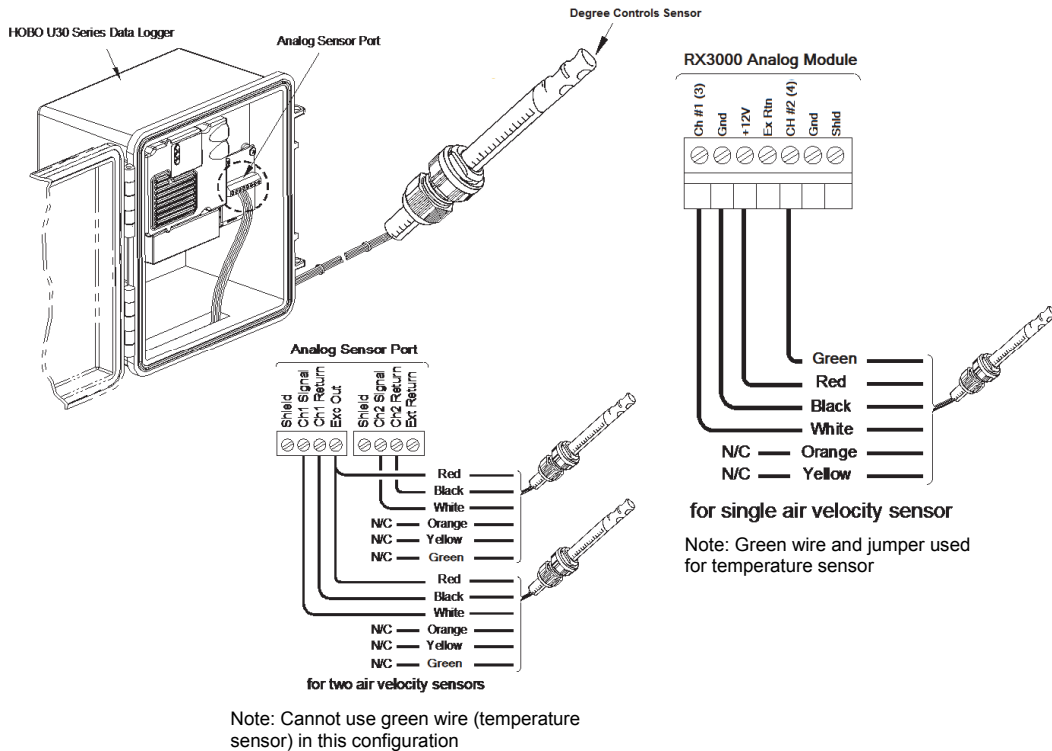
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Connecting the Air Velocity and Temperature Sensor to the Analog Module or Port

H22 Connection

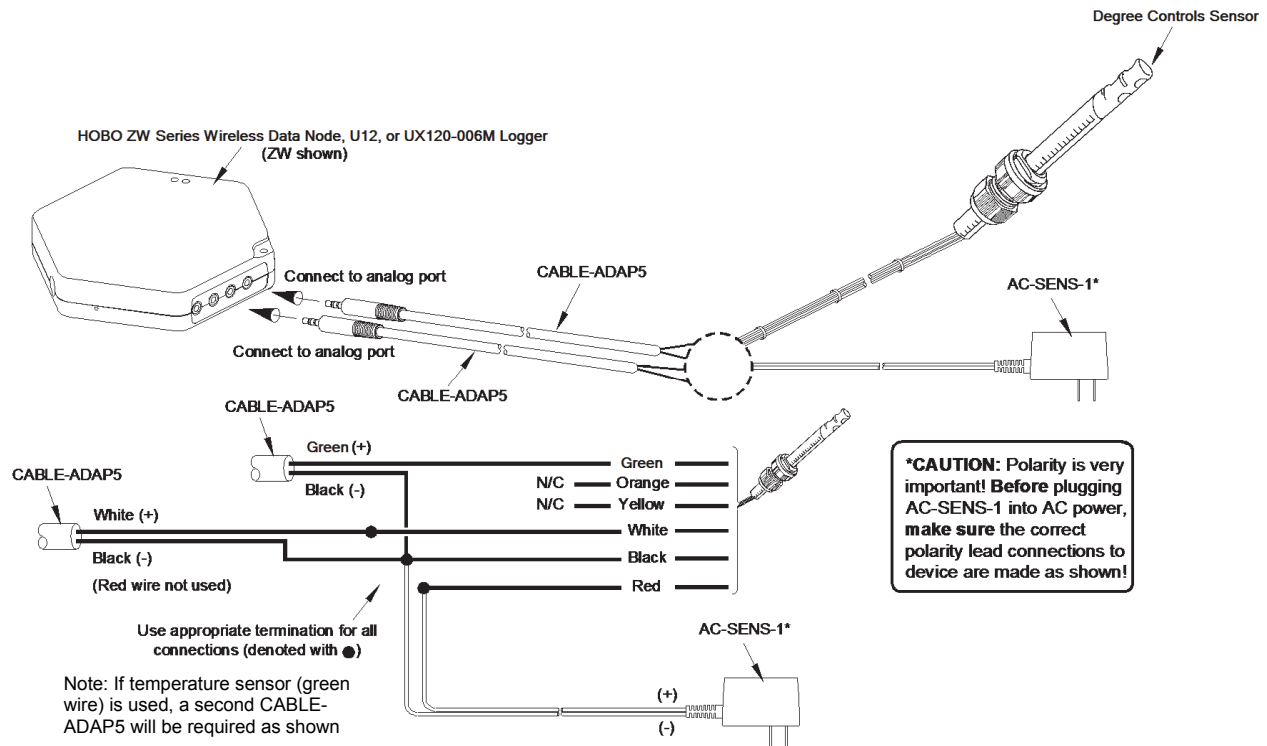


U30 or RX3000 Connection (U30 Shown)



Degree Controls Air Velocity Sensor and Temperature Connection Instructions

ZW, U12, and UX120-006M Connection



Configuring the Data Logger for the Air Velocity and Temperature Sensor using HOBOWare Software

HOBOWare software provides configuration files for the sensors. The table below lists the recommended configuration values that these files contain. For information on loading configuration files, refer to the software documentation.

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-DCI-F300-1A3 or T-DCI-F350-W5A3	Velocity	5 sec	Voltage	0	5	V	0.15 or 30	1 or 200	m/s or fpm
T-DCI-F300-1B3 or T-DCI-F350-W5B3	Velocity	5 sec	Voltage	0	5	V	0.5 or 100	10 or 2000	m/s or fpm
T-DCI-F300-1C3 or T-DCI-F350-W5C3	Velocity	5 sec	Voltage	0	5	V	1 or 200	20 or 4000	m/s or fpm
All models	Temperature	5 sec	Voltage	0	5	V	0 or 32	100 or 212	C or F

* Excitation power provided by the FlexSmart Analog Module (Onset Part No. S-FS-CVIA) with H22; by the Analog Sensor Port/Module with U30 and RX3000; and by power adapter (Onset Part No. AC-SENS-1) with ZW, U12, or UX120-006M.