Degree Controls Air Velocity and Temperature Sensor Connection Instructions

For use with HOBO® H22, U30, UX120-006M, MX1104, MX1105, and RX3000 loggers or stations

Applies to these Degree Controls Air Velocity and Temperature Sensors:

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

Note: When entering scaling values, enter 0 for the first scaled value instead of the minimum measurement listed above. See chart on page 3.

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 UX120-006M, MX1104, and MX1105 data loggers

It also lists scaling values used by HOBO 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.

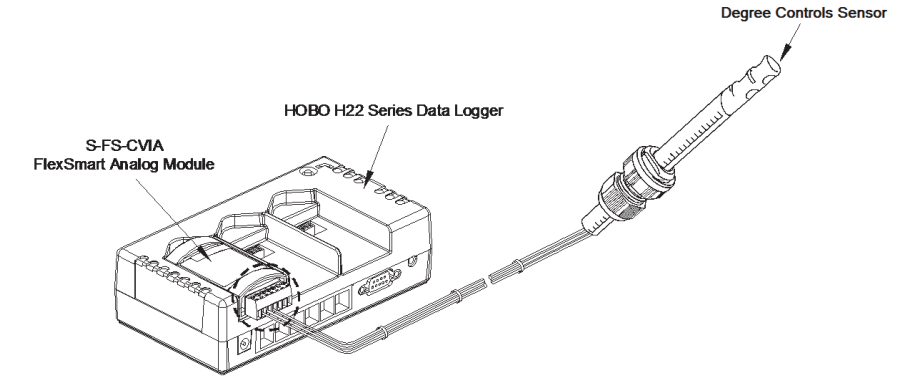
Degree Controls Air Velocity and Temperature Sensor
(Onset Part No. T-DCI-F300-1x3 shown)

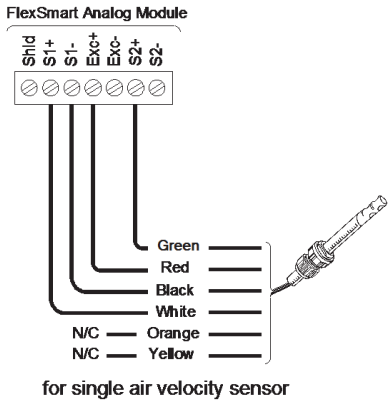
Required Items

- Selected Degree Controls Air Velocity and Temperature sensor
- HOBO H22, U30, UX120-006M, MX1104, MX1105, or RX3000 logger or station
- FlexSmart Analog Module, S-FS-CVIA (for H22 series); Analog Sensor Port/Module option (for U30 and RX3000 series); voltage adapter, CABLE-ADAP5 (for UX120-006M, MX1104, and MX1105 loggers) or SD-VOLT-05 (for MX1104 and MX1105 loggers)
- HOBOware® software, version 2.2.1 or higher for H22 loggers; 2.4.0 or higher for U30 stations; 3.6 or higher for UX120-006M loggers
- HOBOconnect® for MX1104 and MX1105 loggers
- HOBOlink® for RX3000 stations

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

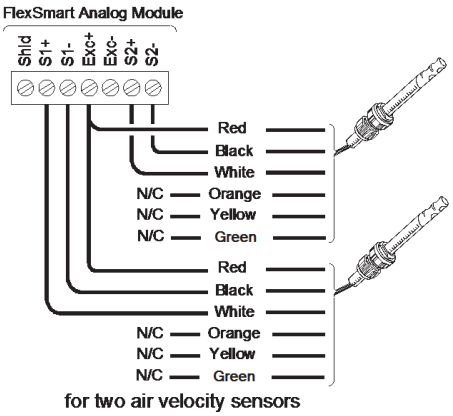
H22 Connection





for single air velocity sensor

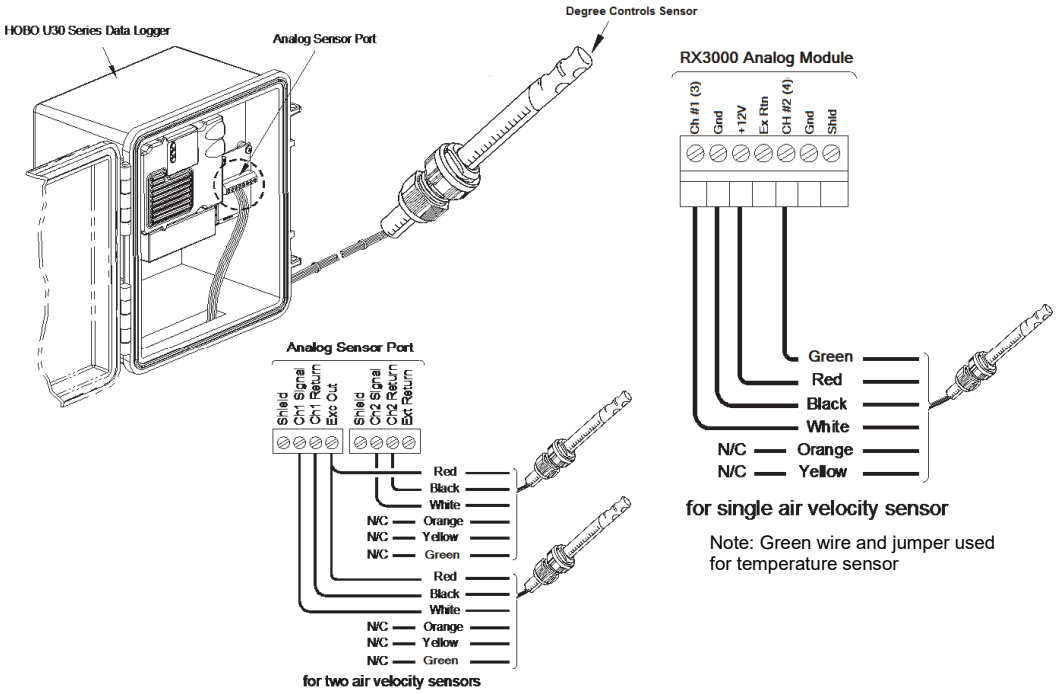
Note: Green wire and jumper used for temperature sensor



for two air velocity sensors

Note: Cannot use green wire (temperature sensor) in this configuration

U30 or RX3000 Connection (U30 Shown)



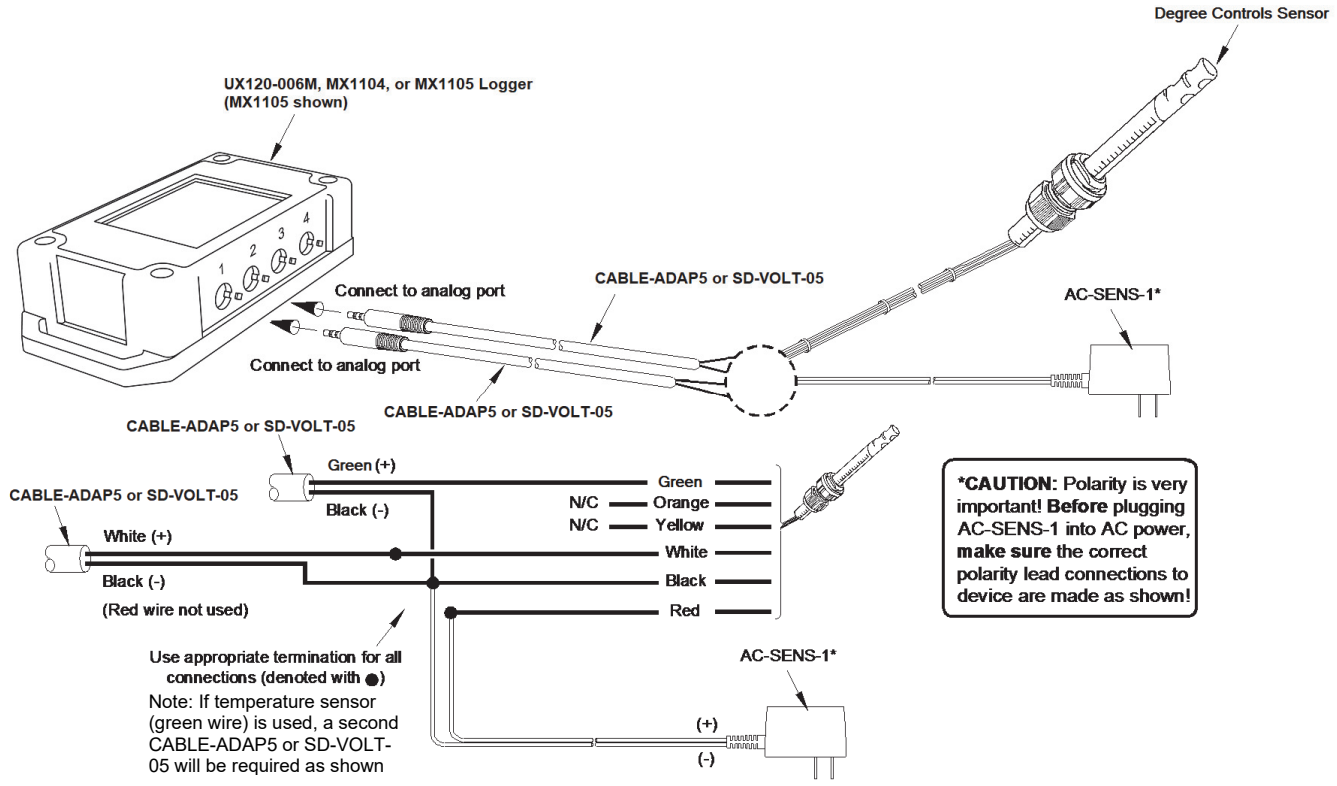
for single air velocity sensor

Note: Green wire and jumper used for temperature sensor

for two air velocity sensors

Note: Cannot use green wire (temperature sensor) in this configuration

UX120-006M, MX1104, and MX1105 Connection (MX1105 Shown)



Scaling Data for the Air Velocity and Temperature Sensor

This table lists the recommended values to use with HOBOware configuration files or when configuring scaling in HOBOlink or HOBOconnect (refer to the software documentation for additional details on scaling).

Onset Part No.	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	1 **or** 200	m/s **or** fpm
T-DCI-F300-1B3 or T-DCI-F350-W5B3	Velocity	5 sec	Voltage	0	5	V	0	10 **or** 2000	m/s **or** fpm
T-DCI-F300-1C3 or T-DCI-F350-W5C3	Velocity	5 sec	Voltage	0	5	V	0	20 **or** 4000	m/s **or** fpm
All models	Temperature	5 sec	Voltage	0	5	V	0	100 **or** 212	C **or** F

* 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 UX120-006M, MX1104, or MX1105.