

Degree Controls Air Velocity Sensor Connection Instructions for use with HOBO[®] H22 and U30 Series Data Loggers

Applies to these Degree Controls Air Velocity Sensors:

Onset Part No.	Output	Degrees Controls Part No.
T-DCI-F900-S-O	0-4 VDC representing 0.15 to 5 m/s (30 to 985 fpm)	F900-O-10-0 (standard short tube body type)
T-DCI-F900-S-P	0-4 VDC representing 0.15 to 10 m/s (30 to 1969 fpm)	F900-P-10-0 (standard short tube body type)
T-DCI-F900-L-O	0-4 VDC representing 0.15 to 5 m/s (30 to 985 fpm)	F900-O-10-1-4-2 (remote sensor long tube body type)
T-DCI-F900-L-P	0-4 VDC representing 0.15 to 10 m/s (30 to 1969 fpm)	F900-P-10-1-4-2 (remote sensor long tube body type)

This document provides instructions on connecting the Degree Controls Air Velocity Sensors listed above to either the FlexSmart[™] Analog Module used with HOBO H22 series data loggers or to the Analog Sensor Port option used with HOBO U30 series loggers. It also lists configuration values used by HOBOWare[®] Pro software to configure the logger for each sensor. **Note:** For sensor details, refer to the documentation provided by Degree Controls.

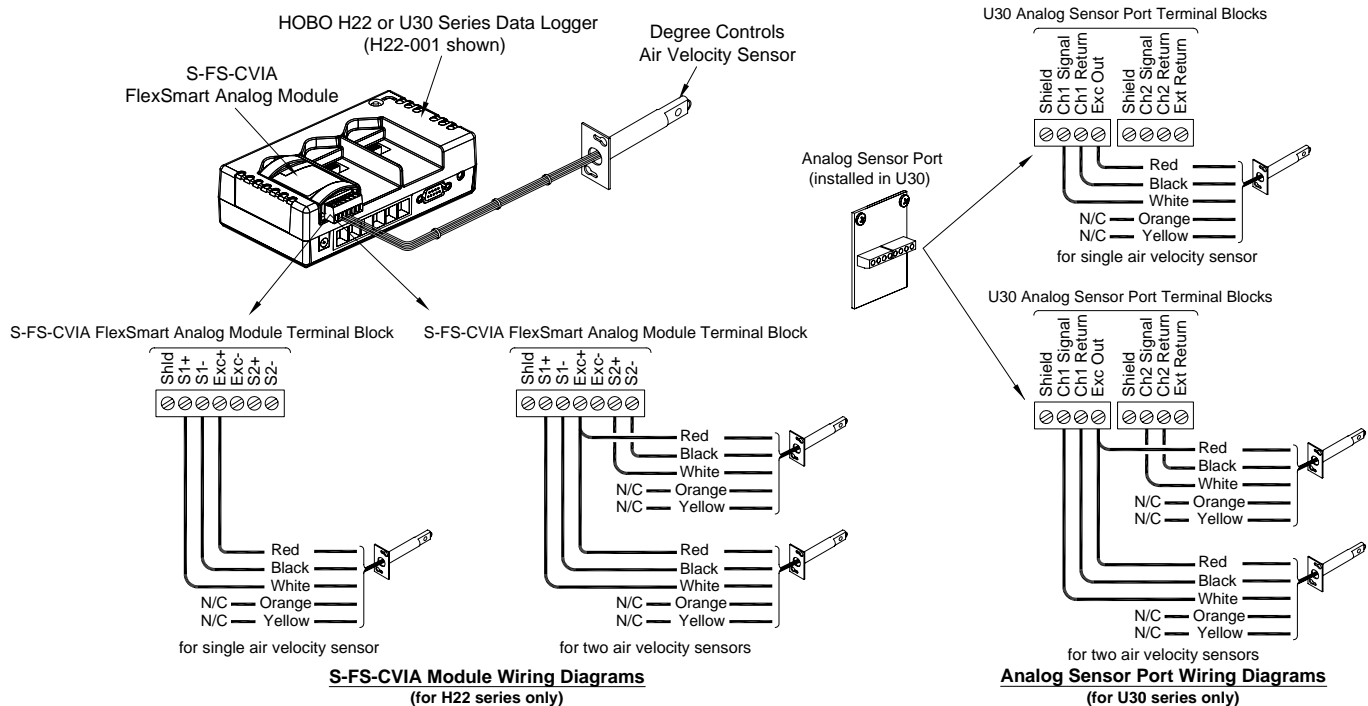
Required:

- Selected Degree Controls Air Velocity Sensor
- HOBO H22 or U30 Series Data Logger
- FlexSmart Analog Module, Onset Part No: S-FS-CVIA (for H22 series) or Analog Sensor Port option (for U30 series)
- HOBOWare Pro Software, version 2.2.1 or higher (2.4.0 or higher for U30 series)



Degree Controls Air Velocity Sensor
(Onset Part No. T-DCI-F900-S-x shown)

Connecting the Air Velocity Sensor to the Analog Module or Port:



Configuring the Data Logger for the Air Velocity Sensor, using HOBOWare Pro Software:

Note: HOBOWare Pro 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-F900-S-O and T-DCI-F900-L-O	Velocity	5 sec	Voltage	0	4	V	0.15 30	5 985	m/s fpm
T-DCI-F900-O and T-DCI-F900-S-O	Velocity	5 sec	Voltage	0	4	V	0.15 30	10 1969	m/s fpm

* 70 mA warm-up excitation power provided by the FlexSmart Analog Module and H22 (U30 Analog Sensor Port limited to 50 mA)

Service and Support

HOBO products are easy to use and reliable. In the unlikely event that you have a problem with this instrument, contact the company where you bought the logger: Onset or an Onset Authorized Dealer. Before calling, you can evaluate and often solve the problem if you write down the events that led to the problem (are you doing anything differently?) and if you visit the Technical Support section of the Onset web site at www.onsetcomp.com/support.html. When contacting Onset, ask for technical support and be prepared to provide the product number and serial number for the logger and software version in question. Also completely describe the problem or question. The more information you provide, the faster and more accurately we will be able to respond.

Onset Computer Corporation
470 MacArthur Blvd., Bourne, MA 02532
Mailing: PO Box 3450, Pocasset, MA 02559-3450
Phone: 1-800-LOGGERS (1-800-564-4377) or 508-759-9500
Fax: 508-759-9100
E-mail: loggerhelp@onsetcomp.com
Internet: www.onsetcomp.com

Warranty

Onset Computer Corporation (Onset) is acting as a distributor of the sensor(s) or transducer(s) described in this document. Onset hereby transfers to the original end-user purchaser the warranty provided by the product manufacturer (**one year** from the date of original purchase). During the warranty period Onset will, at its option, either repair or replace products that prove to be defective in material or workmanship. This warranty shall terminate and be of no further effect at the time the product is (1) damaged by extraneous cause such as fire, water, lightning, etc. or not maintained in accordance with the accompanying documentation; (2) modified; (3) improperly installed; (4) repaired by someone other than Onset; or (5) used in a manner or purpose for which the product was not intended.

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Returns

Please direct all warranty claims and repair requests to place of purchase.

Before returning a failed unit directly to Onset, you must obtain a Return Merchandise Authorization (RMA) number from Onset. You must provide proof that you purchased the Onset product(s) directly from Onset (purchase order number or Onset invoice number). Onset will issue an RMA number that is valid for 30 days. You must ship the product(s), properly packaged against further damage, to Onset (at your expense) with the RMA number marked clearly on the outside of the package. Onset is not responsible for any package that is returned without a valid RMA number or for the loss of the package by any shipping company. Loggers must be clean before they are sent back to Onset or they may be returned to you.

Repair Policy

Products that are returned after the warranty period or are damaged by the customer as specified in the warranty provisions can be returned to Onset with a valid RMA number for evaluation.

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Manual Part No: MAN-DEGREE_CONTROLS

Doc No: 13040-A

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