HOBO® T-DCI-F300-1x3 Sensor

Air Velocity and Temperature

The F300 series sensors are versatile, rugged, high-performance air velocity and air temperature sensors. Designed with conformal coated electronics and sealed enclosures, F300 sensors area suitable for demanding applications, including those in corrosive or alkaline environments. With a robust, splash-proof design and UV-tolerant construction, F300s are built to handle a wide range of product and process-control air flow applications.

Requirements for use with specific data loggers:

HOBO MX1100 series: a 0-5 Volt DC input cable (SD-VOLT-05) and external power provided by an AC adapter (AC-SENS-1) HOBO U12, UX120-006M, or ZW series: a 0-5 Volt DC input cable (CABLE-ADAP5) and external power provided by an AC adapter (AC-SENS-1) HOBO RX3000: an analog input module (RXMOD-A1) HOBO U30: an analog input module (VIA) HOBO H22: an analog input module (S-FS-CVIA)

Key Advantages:

This adds the ability for users to be able to measure air velocity (in ducts, e.g.) from which CFM can be computed.

HOBO T-DCI-F300-1x3 Sensor Specifications

Operating temperature range	0°C to 60°C (32°F to 140°F)
Velocity range	0.15 to 1.0 m/s (30 to 200 fpm) 0.5 to 10 m/s (100 to 2,000 fpm) 1.0 to 20 m/s (200 to 4,000 fpm)
Response time	400ms
Storage temperature	-40°C to 105°C (-40°F - 220°F)
Relative humidity (non-condensing)	5-95%
Supply power requirements	4.5-15 VDC, 35mA nominal
Velocity Output	0-5V
Temperature output	0-5V
Housing Construction	Polycarbonate (PC), UL94-V0 (head) UL94-HB (housing)
Plenum rated cable	22 AWG
Environmental Protection	IP65 electronics, including conformal coated sensing element
Accuracy	0.15 to 1.0 m/s (30 to 200 fpm): ± (1% of reading + 0.05 m/s [10 fpm]) 0.5 to 10 m/s (100 to 2,000 fpm): ± (4% of reading + 0.10 m/s [20 fpm]) 1.0 to 20 m/s (200 to 4,000 fpm): ± (5% of reading + 0.15 m/s [30 fpm])
Sensor Length	152mm [6.0”]
Max insertion depth	110 mm [4.3”]