HOBO® T-DCI-F350-W5x3 Sensor

Air Velocity & Temperature Remote Head

The F350 series is a versatile, high performance, air velocity and air temperature sensor where the sensor element is built remotely from the sensor electronics. In products where segregation of the sensing element and electronics is desirable, such as products involving high EMI sensitivity or extreme temperature, or those where the sensing area is too small for typical probe-style sensors.

The sensor requires analog input option during RX3000 or U30 system configuration and use of a S-FS-CVIA when using the H22-001 data logger. When using a U12 data logger, this sensor requires an 0-5 Vdc analog input cable (CABLE-ADAP5) and external power provided by an AC adapter (AC-SENS-1).

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-F350-W5x3 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])
Stainless Steel Wand	127mm (5")
Sensor Head Height	64mm (.25")
Housing Length	196 mm [7.75"]
Cable Length from Housing to Sensor Head	1m [3']