T-DCI-F300-1x3 Sensor

Air Velocity and Temperature Sensor

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

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).

Supported Measurements:

Air Velocity

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.

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”]