



HOBO Compressed Air Flow Meter Sensor (1 - 80 SCFM, Nominal Pipe Size 1 inch)

Product Images



Short Description

Effectively monitor compressed air systems with the CDI meter.

Description

Effectively monitor compressed air systems with the CDI meter. This flow meter includes two probes, one warmer than the other. This arrangement calculates mass velocity based on heat requirements. Additionally, pipe area data is used to determine flow amounts.

Available in two versions:

- **T-CDI-5200-10S** Output: 4-20mA representing 1 to 80 SCFM of air, Nominal Pipe Size: 1 inch
- **T-CDI-5400-20S** Output: 4-20mA representing 40 to 600 SCFM of air, Nominal Pipe Size: 2 inches

Key Features

- Easy to install
- Digital display

Requirements for use with specific data loggers:

- HOBO MX1100 series: a 4-20mA input cable ([SD-MA-420](#)) and external power provided by an AC adapter ([AC-SENS-1](#))
- HOBO U12, UX120-006M, or ZW series: a 4-20mA input cable ([CABLE-4-20mA](#)) and external power provided by an AC adapter ([AC-SENS-1](#))
- HOBO RX3000: an analogue input module (RXMOD-A1)
- HOBO U30: an analogue input module (VIA)
- HOBO H22: an analogue input module (S-FS-CVIA)

Additional Information

Country of Manufacture

United States

The country of origin for this product is the United States.

Explanation

	T-CDI-5200-10S	T-CDI-5400-20S
Measurement range	1 - 80 SCFM	40-600 SCFM (calibrated), 350 - 600 (uncalibrated)
Accuracy**	5% of reading plus 1% of full scale @ air temperatures 40 - 120F	5% of reading plus 1% of full scale @ air temperatures 40 - 120F; (5400 model extended range) 7% of reading from rated full scale to 150% of calibrated range, @ air temperatures 40 - 120F
Medium**	Compressed air, nitrogen	Compressed air, nitrogen
Operating pressure**	30 to 170 psig for best accuracy. 200 psig max on Sch 40 steel	200 psig max on Sch 40 steel
Input power**	250 mA @ 18 - 24 VDC	250 mA @ 18 - 24 VDC
Output resistance**	400Ω max	400Ω max
Response time**	1 sec to 63% of final value	1 sec to 63% of final value
Output**	4 - 20mA or pulse	4 - 20mA or pulse
Display**	4-digit LED	4-digit LED
Ring material**	Aluminum	Aluminum
Size / Weight**	3.2x2.2x1.6 in / approx. 1.2 lb	3.2x2.2x1.6 in / approx. 1.4 lb

Brand Onset HOBO

Typical applications Industrial

Measurements	Compressed Air Flow
Compatible With	HOBO MX1100 series, UX120-006M, HOBO RX3000, HOBO U30, HOBO H22