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Air Velocity transducer TSI Model 8455

General purpose: protected probe tip, rugged ceramic sensor, wide range of measurement applications, fast response time.

SPECIFICATIONS

Accuracy:	<u>+</u> 2.0% compensa	of reading ¹ , ¹ From 64.4 to 82.4°F (18 to 28°C), outside this range and wation range add 0.11% per °F (0.2% per °C)	ithin temperature
	<u>+</u> 0.5%	of full scale of selected range	
Field selectable	range: 25 ft/m 3,000, 10,000 12.5, 7	nin to 200, 250, 300, 400, 500, 750, 1,000, 1,250, 7 4,000, 5,000, 7,500, 0 ft/min (0.125 m/s to 1.0, 1.25, 1.50, 2.0, 2.5, 3.0, 15.0, 20.0, 25.0, 30.0, 40.0, 50.0 m/s)	1,500, 2,000, 2,500, 4.0, 5.0, 7.5, 10.0,
Repeatability:	< <u>+</u> 1,0°	$\%$ of ${ m reading}^3$, 3 Standard deviation based on one minute average from	100 to 1,000 fpm (0.5 to 5.0 m/s)
Response to flow:		$0.2\text{sec}^4,^4\text{For}$ 63% of final value, tested at 1,500 fpm (7.5 m/s)	An VELOCITE TRANSDUCE was to support
Temperature rar Compensation Operating (electro Operating (senso Storage	n ge: onics) r)	32 to 140°F (0 to 60°C) 32 to 200°F (0 to 93°C) 32 to 200°F (0 to 93°C) 32 to 200°F (0 to 93°C)	
Resolution (min	imum):	0.07% of selected full scale	6.0 cm
Input power:	11 to 3 ⁶ Input vol	30 VDC or 18 to 38 VAC, 350 mA max ⁶ tage must be maintained within specifications at the transducer	
Output: Impedance	Voltage mode: less than 1 ohm, 20mA max source current Current mode: 500 ohms maximum load Field selectable 0 to 5V, 0 to 10V, 0 to 20, 2 to 10V, mA, 4 to 20 mA		
Resistance Signal			
Time constant	Field s	selectable 0.05 to 10 seconds	8455
Probe length:	3 in., 6 22.5 c	6 in., 9 in., 12 in. (7.5 cm, 15 cm, m, or 30 cm)	

All models contain on-board electronics and calibration curves that provide a linear signal output. This linear signal is sent out as either a current (mA) or a voltage (V) signal, allowing output to a variety of data loggers or data acquisition systems. In addition, the current and voltage output ranges are user-selectable for your convenience.

	8455		
Range	25 to 10,000 fpm (0.127 to 50.8 m/s), selectable		
Accuracy	±(2% of reading at 64.4 to 82.4°F (18-28°C) +0.5% of full scale of selected range)		
Response time 0.2 seconds			
Input power	11 to 30 VDC or 18 to 28 VAC, 350 mA maximum		