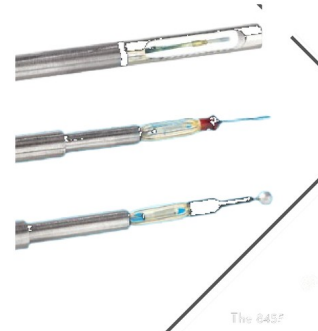


8455 8465 8475

Air Velocity Transmitter - 15 cm probe

Réf. 8455 8465 8475

The 8455, 8465 and 8475 Air Velocity Transmitters suit both temporary and permanent installations for measuring air velocity in research and development labs, manufacturing processes and various other applications. The full scale range, signal output and time constant are user-selectable, so users can adapt each transmitter to their application. All models feature onboard electronics and calibration curves that provide a linear signal output. This linear signal is transmitted as a current (mA) or voltage (V) signal, enabling connection to a wide range of data loggers or data acquisition systems.



APPLICATIONS

- Critical environment installations such as clean rooms and hospitals (comfort and design studies)
- Diffuser design analysis, monitoring of drying processes, air flow in tunnels and ducts
- Wind tunnels and calibration facilities
- Environmental monitoring in greenhouses and indoor air quality (IAQ)
- General engineering applications

TWO-WAY SENSOR (8455)

- Protected probe head
- Durable ceramic sensor
- Wide range of measurement applications
- Fast response time

MULTI-DIRECTIONAL SENSOR (8465)

- Reduced flow blockage
- Ideal for measurement in confined spaces
- Fast response time

OMNIDIRECTIONAL SENSOR (8475)

- Omnidirectional probe head
- Accuracy at low speeds between 0.05 and 0.5 m/s
- Ideal for unknown or variable flow direction

DATA SPECIFICATIONS

MODEL	SPECIFICATION
Accuracy - 8455	Accuracy of the reading and 0.5 % of the full scale within the chosen range
Accuracy - 8465	Approximately 2.0 % of the reading and about 0.5 % of the full scale of the selected range
Accuracy - 8475	Approximately 3.0 % of the reading and about 1.0 % of the full scale of the selected range
Selectable range (8455/8465)	0.125 to 50.0 m/s (0.125, 1.0, 1.25, 1.50, 2.0, 2.5, 3.0, 4.0, 5.0, 7.5, 10.0, 12.5, 15.0, 20.0, 25.0, 30.0, 40.0, 50.0 m/s)
Selectable range (8475)	0.05 to 2.5 m/s (0.05, 0.5, 0.75, 1.0, 1.25, 1.50, 2.0, 2.5 m/s)
Repeatability	Approximately 1 % of the reading
Response time (8455/8465)	0.2 s
Response time (8475)	5 s
Operating temperature (electronics)	0 to 60 °C
Operating temperature (sensor)	0 to 93 °C
Storage temperature	0 to 93 °C
Temperature accuracy	0.07 % of chosen full scale
Input voltage range	11 to 30 VDC or 18 to 38 VAC, maximum current 350 mA
Impedance voltage mode	Less than 1 ohm, maximum source current 20 mA
Resistance current mode	Maximum load 500 ohms
Signal field	Selectable 0 to 5 V, 0 to 10 V, 0 to 20 V, 2 to 10 V, mA and 4 to 20 mA
Time constant	Selectable 0.05 to 10 seconds
Probe length	7.5 cm, 15 cm, 22.5 cm or 30 cm
Data specifications	onboard electronics and calibration curves for a linear signal output