

AFD-1 – AIR FLOW TRANSMITTER

AFD-1D AIR FLOW TRANSMITTER

The AFD-1 instrument has been designed for the measurement of air velocity and air flow. It has a 4-digit display and a voltage or current output proportional to the airflow. The display and output scaling can be programmed for air velocity (m/s) or volume flow (m³/s) by push-button keys inside the instrument. As an option AFD-1 also might have two adjustable limit switches which can be used as alarm or ON-OFF control operation.

The detector uses the thermal measurement principle. Sensing part is located at the end of the probe assembly, which is designed to be placed in a duct to measure the airflow. The



depth into the duct can be adjusted. The

sensor is a highly precise RTD sensor. The electronic circuits are placed in a sealed plastic box at the other end of the probe assembly or is connected by max 2 m cable to the sensor.

APPLICATIONS

- air conditioning and energy control systems in buildings and in industrial premises
- control systems in industrial processes
- measurement in clean room and other controlled cleanliness operations
- food and medicine storage monitoring
- working environment hygiene condition measurements

TECHNICAL SPESIFICATIONS	
Meas.ranges	0..2 m/s, 0...20 m/s user scaleable are factor for volume flow
Display	4-digit 7-segment LED
Meas.units	m/s and m ³ /s
Precision	±3% of reading ±0.1 m/s
Response time	3 sec. (adjustable filter)
Resolution	0.01 m/s
Output	current 4...20 mA or voltage 0...10 V (output scaling adjustable for desired range)
Limit switches	2 adjustable alarm levels setting by push putton keys
Operation temp.	-20...80 °C (electronic 0...60 °C)
Probe lenght	320 mm, diameter 8 mm
Housing	ASB/PC box, 130 x 80 x 35 mm
Power supply	24 VDC