

## AFD – AIR FLOW TRANSMITTER WITH DISPLAY



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 (m<sup>3</sup>/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.

### Technical specifications

Meas. ranges	0...2 m/s, 0...20 m/s user scaleable area factor for volume flow
Display	4-digit 7-segment LED
Meas. units	m/s and m <sup>3</sup> /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-button keys
Operation temp	-20...+80 °C (electronic 0...60 °C)
Probe length	320 mm, diameter 8 mm
Housing	ABS/PC box, 130 x 80 x 35 mm
Power supply	24 VDC

### Applications

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

### Order information

Basic unit

<b>AFD-1-02</b>	Meas. range 0 – 2 m/s
<b>AFD-1-20</b>	Meas. range 0 – 20 m/s
<b>AFDS-1 ...</b>	External sensor

Options

<b>-L2</b>	Adjustable alarms (2 ea)
<b>-B</b>	Buzzer
<b>-C/V</b>	Current or voltage output