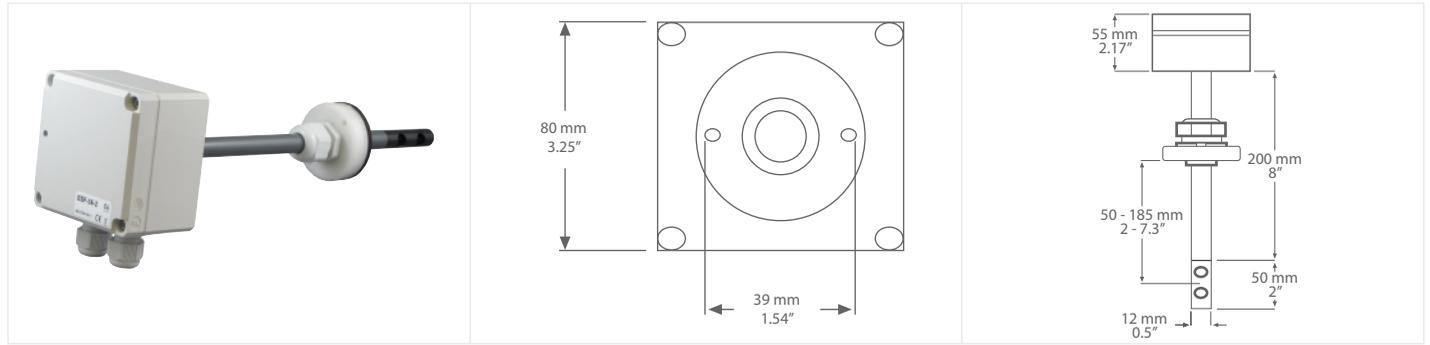




## AIR FLOW TRANSMITTER



### ESF SERIES

### APPLICATION

The ESF airflow transmitter can be used in a wide range of applications such as:

- Measurements of airflow speed via PLC/outstation/EMS
- Regulation of airflow speed
- Monitoring of airflow speed

### DESCRIPTION

The ESF-35-2 transmitter registers the airflow speed according to a thermal principle based on the fact that the cooling action of air increases with airspeed. The action is measured and converted to a 4-20 mA or a 0-10 V signal corresponding to airflow speeds from 0-8 m/s (0-1575 ft/min) or 0-16 m/s (0-3150 ft/min).

### TYPICAL INSTALLATION

The ESF-35-2 is installed in such a way that the current of air passes through the gap of the sensor head. Conductors to and from the transducer should be kept isolated from high-power conductors where powerful transient voltage spikes may appear.

### ORDERING INFORMATION

ESF-35-2 Airflow Transmitter

ESF-35-2-M2 Airflow Transmitter, 2 pack

**NOTE:** The M2 option provides two ESF-35-2 in the one product carton. Using this option when ordering multiple units will reduce the shipping carton size and freight costs.

### SPECIFICATIONS

AIRFLOW SPEED RANGE	0-8 m/s (1575 ft/min)
(BY REMOVING ON-BOARD JUMPER)	0-16 m/s (3150 ft/min)
OUTPUT SIGNAL (FLOW)	4-20 mA, 0-10 Vdc
OUTPUT SIGNAL (TEMPERATURE)	0-10 Vdc
TEMPERATURE RANGE	0 to 50°C (32 to 122°F)
AIR TEMPERATURE	-10 to 60°C (14 to 140°F)
AMBIENT TEMPERATURE	-20 to 50°C (-4 to 122°F)
HUMIDITY RANGE	5 to 95 %RH, non-condensing
AC VOLTAGE SUPPLY	120 mA or 24 Vac
DC VOLTAGE SUPPLY	80mA or 16-30 Vdc
ABSOLUTE ACCURACY	±5%
RISE TIME	20 seconds
TIME CONSTANT	5 seconds
DEPTH OF INSERTION IN CHANNEL	50 to 200mm (2 to 8")
DIMENSIONS	80mm W x 80mm H x 55mm D (3.15" x 3.15" x 2.17")
ENCLOSURE RATING	IP54
COUNTRY OF MANUFACTURE	Denmark