

# AIR FLOW

## Thermo-anemometer probe Type FV A935-TH4 / -TH5



## Typ FV A935-TH4Kx / -TH5Kx



- Thermo-anemometer probes FVA935TH4 and FVA935TH5 are especially suitable for measuring and recording flow velocity and temperature data even when measuring operations are performed in cramped and restricted conditions.
- Measured values can be acquired with a high level of accuracy even at velocities below 0.5 m/s (100 ft/min).
- The sensor can be used with either side facing the direction of flow.
- Temperature is compensated over a wide range. 0 to +50 °C.
- The sensor tube is only 6 mm in diameter (0.24").

### Technical data

#### Flow

Measuring range	
FVA935TH4 / TH4Kx	0.08 to 2 m/s
FVA935TH5 / TH5Kx	0.2 to 20 m/s
Resolution	
FVA935TH4 / TH4Kx	0.001 m/s
FVA935TH5 / TH5Kx	0.01 m/s
Response time	<1.5 s
Accuracy	
FVA935TH4 / TH4Kx	± (0.04 m/s + 1% of meas. val.)
FVA935TH5 / TH5Kx	± (0.2 m/s + 2% of meas. val.)
Temperature compensation	0 to +50 °C
Influence of temperature	
FVA935TH4 / TH4Kx	±0.5% of measured value /°C at 0.3 to 2 m/s
FVA935TH5 / TH5Kx	±0.3% of measured value /°C at 0.3 to 20 m/s
Direction facing the flow	bidirectional
Angle dependence	<3% of measured value with deviation <15°
Pressure range	ambient pressure

#### Temperature

Measuring range	-20 to +70 °C
Resolution	0.1 °C
Accuracy	±0.7 °C at 0 to 50°C and > 0.5 m/s
Response time T <sub>90</sub>	typical 10 seconds

#### Nominal conditions

Temperature	22 °C ±2 K
Atmospheric humidity	45 ± 10% relative humidity (non-condensing)
Atmospheric pressure	1013 mbar

#### Power supply

	6 to 13 V / 40 mA
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#### Dimensions

Probe diameter	6 mm
FVA935TH4/TH5	
Probe with handle, probe lengths : 210 mm (plus handle)	
ALMEMO® cable, 1.5 meters	
FVA935TH4Kx/TH5Kx	
Probe with remote electronics in the cable housing	
Probe lengths THxK1, 80 mm / THxK2, 300 mm	
Probe cable 5 m to electronics, ALMEMO® cable, 1.5 m	

### Variant (including works certificate)

- Sensor 2 m/s, length = 210 mm, with handle
- Sensor 2 m/s, length = 80 mm, with electronicbox
- Sensor 2 m/s, length = 300 mm, with electronicbox
- Sensor 20 m/s, length = 210 mm, with handle
- Sensor 20 m/s, length = 80 mm, with electronicbox
- Sensor 20 m/s, length = 300 mm, with electronicbox

- Order No. FVA935TH4
- Order No. FVA935TH4K1
- Order No. FVA935TH4K2
- Order No. FVA935TH5
- Order No. FVA935TH5K1
- Order No. FVA935TH5K2