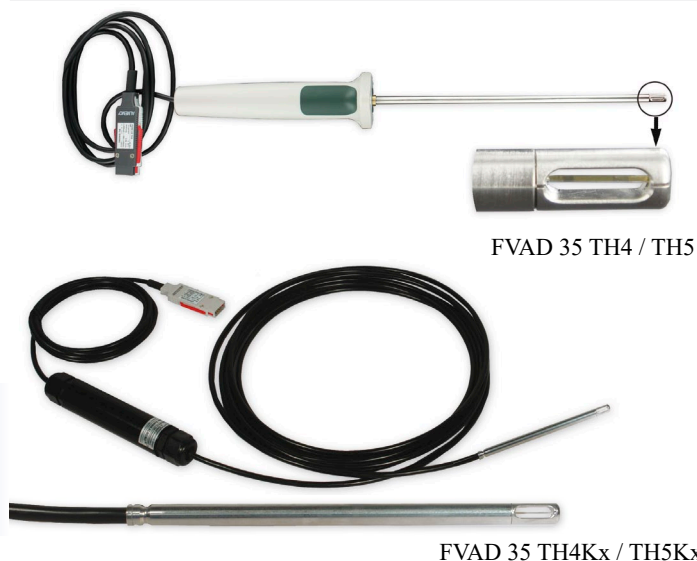


Digital thermoanemometer FVAD 35 THx with ALMEMO® D6 plug with integrated atmospheric pressure sensor, for automatic pressure compensation



FVAD 35 TH4 / TH5

FVAD 35 TH4Kx / TH5Kx

- Automatic atmospheric pressure compensation is provided for pressure-dependent flow velocity by means of a digital atmospheric pressure sensor integrated in the ALMEMO® D6 plug itself.
- Digital thermoanemometer with A/D converter in the grip or integrated in the cable
- The probe tube has a small diameter, only 6 mm.
- All relevant measurable variables can be measured using just one sensor.
- Three measuring channels are programmed (at our factory): Temperature (°C, t), Flow velocity (m/s, v), Atmospheric pressure (mbar, AP, p)

General features and accessories, ALMEMO® D6 sensors: see page 01.08

DAkKS or factory calibration KV90xx air flow for digital sensor (see chapter „Calibration certificates“). DAkKS calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.

Technical data

Digital thermoanemometer (Sensor including A/D converter)

Flow		Temperature	
Measuring range		Measuring range	-20 to +70 °C
FVAD 35 TH4 / TH4Kx	0.08 to 2 m/s	Resolution	0.1 °C
FVAD 35 TH5 / TH5Kx	0.2 to 20 m/s	Accuracy	±0.7 °C at 0 to 50 °C and >0.5 m/s
Resolution		Response time T ₉₀	typical 10 seconds
FVAD 35 TH4 / TH4Kx	0.001 m/s	Digital atmospheric pressure sensor	
FVAD 35 TH5 / TH5Kx	0.01 m/s	(integrated in ALMEMO® D6 plug)	
Response time	<1.5 seconds	Measuring range	700 to 1100 mbar
Accuracy		Accuracy	±2.5 mbar (at 23 °C ±5 K)
FVAD 35 TH4 / TH4Kx	± (0.04 m/s +1% of meas. val.)	ALMEMO® D6 plug	
FVAD 35 TH5 / TH5Kx	± (0.2 m/s +2% of meas. val.)	Refresh rate	0.5 seconds for all 3 channels
Nominal conditions	22 °C ±2 K, 45 % RH ±10 % RH	Supply voltage	6 to 13 VDC
	1013 mbar	Current consumption	40 mA
Temperature compensation	0 to +50 °C	Dimensions	
Influence of temperature		Probe diameter	6 mm
FVAD 35 TH4 / TH4Kx	±0.5 % of measured value /°C	Flow aperture	approx. 10 x 3 mm
	at 0.3 to 2 m/s	FVAD 35 TH4 / TH5	
FVAD 35 TH5 / TH5Kx	±0.3% of measured value /°C	Probe with grip, probe lengths 210 mm	
	at 0.3 to 20 m/s	(plus grip) ALMEMO® cable 1.5 meters	
Incidental flow	bidirectional	FVAD 35 TH4Kx / TH5Kx	
Angle dependence	<3% of measured value	Probe with detached electronics unit integrated in the	
	with deviation <15°	cable, Probe lengths THxK1, 80 mm / THxK2, 300 mm	
Pressure range	Ambient pressure	Probe cable 5 meters to the electronics	
Pressure compensation	automatic in range 700 to 1100mbar	ALMEMO® cable 1.5 m	

Accessories (for FVAD 35 THxK1 / K2 only)



Order no.	
Clamped screw connection with thread adapter for telescopic extension / extension set (maximum 80 °C)	ZV9915KV
Telescope extension Ø 15 to 24 mm 330 / 1010 mm	ZV9915TV
Extension set Ø 15 mm 4 x 255 mm	ZV9915VR3

Variants (including works certificate)

Digital thermoanemometer, fitted cable with ALMEMO® D6 plug and integrated digital atmospheric pressure sensor

Sensor 2 m/s, length = 210 mm, (with grip)	FVAD35TH4
Sensor 2 m/s, length = 80 mm, (detached electronics unit)	FVAD35TH4K1
Sensor 2 m/s, length = 300 mm, (detached electronics unit)	FVAD35TH4K2
Sensor 20 m/s, length = 210 mm, (with grip)	FVAD35TH5
Sensor 20 m/s, length = 80 mm, (detached electronics unit)	FVAD35TH5K1
Sensor 20 m/s, length = 300 mm, (detached electronics unit)	FVAD35TH5K2

Order no.

Other designs are available on request

High-temperature thermoanemometer MT8635THx
Operative range -40 to +120 °C, up to 40 m/s
Probe with detached electronics unit integrated in the cable

