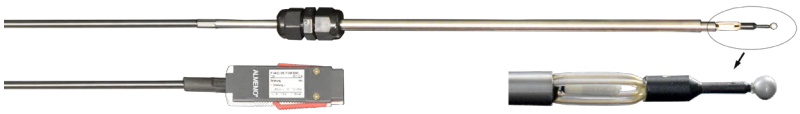
Digital thermo-anemometer omnidirectional FVAD 05-TOKx, with ALMEMO® D6 plug, with integrated atmospheric pressure sensor for automatic atmospheric pressure compensation







Technical data and functions

- Omnidirectional sensitive tip with exposed heat ball probe.
- Optimized version for measuring low flow velocities in air.
- Solid construction of the sensor top, suitable for mobile usage.
- Digital thermo-anemometer with integrated A/D converter in the ALMEMO® D6 plug.
- Automatic atmospheric pressure compensation of the flow velocities dependent on the atmospheric pressure with digital atmospheric pressure sensor integrated in the ALMEMO® D6 plug. Alternatively manual input of the atmospheric pressure in the ALMEMO® D6 sensor menu. Two measuring channels are preprogrammed on leaving our factory: flow velocity (m/s, v), atmospheric pressure (mbar, AP, p).

General features and accessories, ALMEMO® D6 sensors:
see chapter ALMEMO® Measuring instruments

Technical data:

Flow sensor	
Measuring range:	0.050 to 1.000 m/s or 2.500 m/s
Resolution:	0.001 m/s
Accuracy:	± (3 % of measured value + 1 % of final value +2 digits)
Nominal conditions:	23 °C ±3 K, 50 % RH, 1013 mbar
Temperature compensation:	effective in the range 0 to 60 °C
Temperature effect:	0.5 % of the measured value/K
Output time constant:	0.1 s (selectable in the range of 0.05 to 10 seconds)
Incident flow:	omnidirectional
Pressure range:	environmental pressure
Atmospheric pressure compensation:	automatically in the range of 700 to 1100 mbar
Dimensions:	
Peak length:	32 mm
Probe diameter:	6.4 mm
Probe length:	300 mm including peak
Probe cable:	5 meters

Transmitter electronic	
Dimensions:	126 x 80 x 60 mm (L x W x H)
Operating temperature:	0 to 60 °C
Supply voltage:	12 VDC
Current consumption:	maximum of 350 mA
Power supply unit connection:	0.2 meter cable with connection 3 pin connector for the power supply unit ZB1212NA10
ALMEMO® connection: with ALMEMO® D6 plug	2 meter cable
Digital atm. pressure sensor (included in the ALMEMO® D6 plug)	
Measuring range:	700 to 1100 mbar
Accuracy:	± 2.5 mbar (at 23 °C ±5 K)
A/D converter integrated in the ALMEMO® D6 plug	
Refresh rate:	0.1 seconds for both channels
Supply voltage:	via the ALMEMO® device (6 to 13 VDC)
Current consumption:	8 mA

Option

	Order no.
Measuring range 2.5 m/s. Transmitter electronic and ALMEMO® D6 plug are pre-configured on leaving our factory	**OA9000TO25**

Variants (including manufacturer´s test certificate)

	Order no.
Digital thermo-anemometer, omnidirectional sensitive peak. Probe with connecting cable to the transmitter electronic. Power supply cable including a plug connection for the power supply unit. ALMEMO® connection cable with ALMEMO® D6 plug, integrated digital atmospheric pressure sensor. Delivery including plug-in power supply unit ZB1212NA10.	**FVAD05TOK300**

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

11/2025 • We reserve the right to make technical changes.