Digital precision vane anemometer
FVAD 15 -H120 / -H140 / -H220 / -H240 / -MK5 / -MK20 with ALMEMO® D6 plug

ALMEMO® D6



FVAD 15 -H120 / -H140



FVAD 15 -H220 / -H240

FVAD 15-HMK5 / -HMK20

Technical data and functions

- The precision probe heads and the sensor shaft are made of metal.
- The flow velocity is recorded with high accuracy.
- Every vane anemometer is adjusted individually. The multi-point adjustment is saved within the ALMEMO® D6 plug.
- Measurement operations carried out by a vane anemometer in air/gas are in practice nearly completely unaffected by environmental variables such as pressure, temperature, or humidity. The low dependence of the measured value on density can be compensated. The density of the gas can be programmed within the ALMEMO® D6 sensor menu on the ALMEMO® V7 device.
- The rugged construction is suitable for mobile as well as for stationary measurement operations.
- The ALMEMO® D6 plug measures the frequency signal of the vane with high resolution.
- One measuring channel is programmed (at our factory): flow velocity v (m/s).

Technical data:

Maximum resolution	0.01 m/s
Nominal conditions	22 °C ±2 K, 1013 mbar
Connection cable	permanently connected cable, FEP/silicone shielded, 2 meters, with Lemo plug
ALMEMO® adapter cable	Lemo coupling cable, 0.2 meters, with ALMEMO® D6 plug
ALMEMO® D6 plug	
Frequency measurement	resolution 0.01 Hz
Multi-point adjustment	sensor specific, saved within the ALMEMO® D6 plug of the adapter cable
Refresh rate	0.5 seconds for all channels
Averaging period	2 seconds, programmable from 2 to 100 s
Supply voltage	6 to 13 VDC
Current consumption	8 mA

For more information about general features of the ALMEMO® D6 sensors, see chapter ALMEMO® Measuring instruments

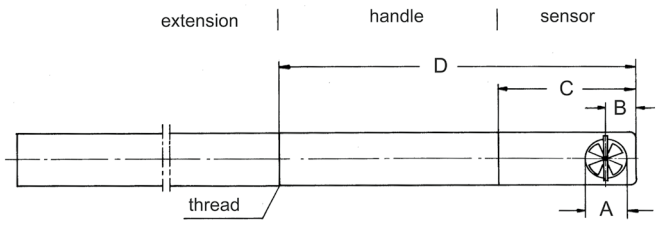
Accessories

	Order no.
Lemo extension cable, length = 5 m, for FVAD 15-H120/-H140/-H220/-H240 /-MK5/-MK20 to extend the sensor cable	**ZB9915VKLH05**
ALMEMO® extension cable, length = 2 m (see chapter 6)	**ZA9060VK2**
ALMEMO® extension cable, length = 5 m (see chapter 6)	**ZA9090VKC5**
Extension set Ø 25 mm, stainless steel, 3 tubes 350 mm each, 3 O-rings (material: FPM75), suitable for FVAD 15-H120/ -H140	**ZV9915H25VR3**
Extension set Ø 16 mm, stainless steel, 3 tubes 350 mm each, 3 O-rings (material: FPM75), suitable for FVAD 15-H220/ -H240	**ZV9915H16VR3**
Tube adapter to impeller FVAD 15-HMKx Macro: Ø 18 mm (impeller) to Ø 16 mm (extension tube), stainless steel, length 30 mm	**ZV9915HMK**

DAkkS accredited calibration or factory calibration KV90xx, air flow, for digital probe, see chapter „Calibration certificates“.
The DAkkS accredited calibration fulfills the requirements of DIN EN ISO/IEC 17025 for test equipment.

Digital precision vane anemometer mini FVAD 15 -H120 / -H140





- The construction type as a cylindrical probe is optimized for safely introducing the probe in a flow channel. Probe head and handle have the same diameter.

Technical data:

Version:	mini, aluminum
Measured medium:	air/gas
Operative range:	-20 to +125 °C (including cable)
Pressure resistance:	up to 6 bar overpressure
Measuring range:	refer to Variants
Accuracy:	± (+0.5 % of final value sensor + 1.0 % of measured value) specific multi-point adjustment

Probe head:	aluminum, Ø 25 mm dimensions C 60 mm dimensions A Ø 18.2 mm dimensions B 13.4 mm
Sensor shaft:	aluminum, Ø 25 mm
Sensor length:	dimensions D 170 mm
Cable exit:	thread M 22 x 1.5
Cable length:	2 m

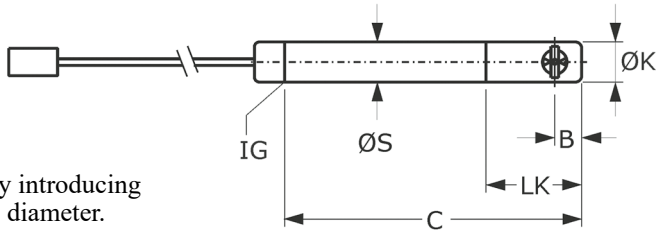
Variants (including manufacturer´s test certificate) **Order no.**

Digital precision vane anemometer for air/gas,
permanently connected cable, adapter cable with ALMEMO® D6 plug

Probe head MN20GA, measuring range of 0.3 to 20 m/s	**FVAD15H120**
Probe head MN40GA, measuring range of 0.4 to 40 m/s	**FVAD15H140**

Digital precision vane anemometer micro FVAD 15H -H220 / -H240





- The construction type as a cylindrical probe is optimized for safely introducing the probe in a flow channel. Probe head and handle have the same diameter.

Technical data:

Version:	micro, aluminum
Measured medium:	air/gas
Operative range:	-20 to +125 °C (including cable)
Pressure resistance:	up to 3 bar overpressure
Measuring range:	refer to Variants
Accuracy:	± (+0.5 % of final value sensor + 1.0 % of measured value) specific multi-point adjustment

Probe head:	aluminum, dimensions Ø K Ø 16 mm dimensions LK 53 mm dimensions B 10.65 mm
Sensor shaft:	aluminum, dimensions Ø S Ø 16 mm
Sensor length:	dimensions C 163 mm
Cable exit:	dimensions IG thread M 14 x 1.5
Cable length:	2 m

Variants (including manufacturer´s test certificate) **Order no.**

Digital precision vane anemometer for air/gas,
permanently connected cable, adapter cable with ALMEMO® D6-plug.

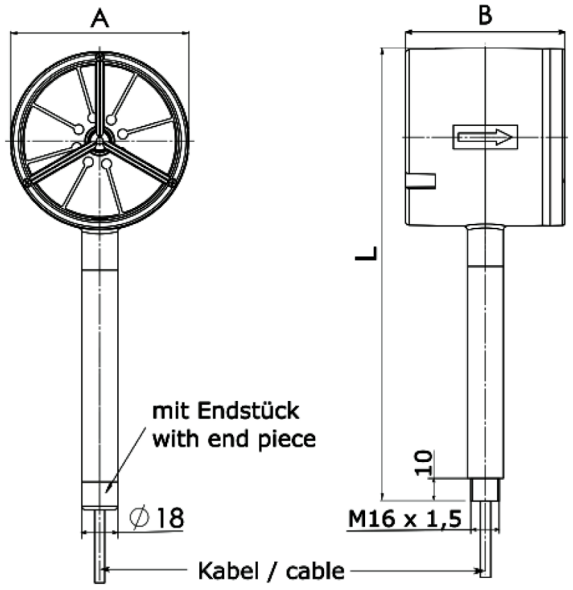
Probe head MC20GA, measuring range of 0.6 to 20 m/s	**FVAD15H220**
Probe head MC40GA, measuring range of 0.7 to 40 m/s	**FVAD15H240**

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

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Digital precision vane anemometer macro FVAD 15 -HMK5 / -HMK20





- Anemometer with T-measuring head.
- Large cross-sectional area.
- Small measuring range available.
- Very small start-up value.
- Low inclined flow sensitivity.
- For measuring medium air, pure gases or gas mixtures.

Applications

The digital precision vane anemometer with measuring head macro is used in a wide variety of applications to measure air velocity.

- Measurements on ventilation, air conditioning and filtration systems.
- Measurement of laminar flow and net measurements on large inlets and outlets.
- Verification of air movements in clean rooms.
- Control measurements on fume hoods of workbenches, workstations.
- Measurements in automotive engineering: during investigations in wind tunnels and in vehicle interiors.

Technical data:

Version:	macro, zinc alloy
Measured medium:	air/gas
Operative range:	-20 to +125 °C (including cable)
Pressure resistance:	atmospheric pressure
Measuring range:	refer to Variants
Accuracy:	± (+0.5 % of final value sensor + 1.0 % of measured value) specific multi-point adjustment

Probe head:	zinc alloy
Impeller:	aluminum dimensions A Ø 90 mm dimensions B 80 mm
Sensor shaft:	stainless steel, Ø 18 mm
Sensor length:	dimensions L 225 mm (without end piece)
Cable exit:	thread M 22 x 1.5
Cable length:	2 m
Weight:	approx. 1 kg (incl. cable)

Accessories

	Order no.
Carrying case for vane anemometer macro	**ZB9605TK**

Variants (including manufacturer´s test certificate)

	Order no.
Digital precision vane anemometer for air/gas, permanently connected cable, adapter cable with ALMEMO® D6 plug	
Probe head MK5, measuring range of 0.15 to 5 m/s	**FVAD15HMK5**
Probe head MK20, measuring range of 0.25 to 20 m/s	**FVAD15HMK20**