Digital vane anemometer FVAD 15-H for special applications, with ALMEMO® D6 plug

Technical data and functions

- The precision measuring heads and the sensor shaft are made of Several measuring heads can be used for measurements in aluminum or stainless steel.
- The flow velocity is measured with high accuracy.
- Each vane anemometer is individually adjusted. The Multipoint adjustment is stored in the ALMEMO® D6 connector.
- In practice, measurements in air and gases are unaffected by environmental variables such as pressure, temperature, or humidity. The low dependence of the measured value on density of the gas can be compensated for. The density can be programmed in the ALMEMO[®] D6 sensor menu in the ALMEMO[®] V7 device.
- water.
- Some variants detect the direction of flows and display the measured value with an algebraic sign.
- The robust type of construction is suitable for mobile measuring operations as well as for stationary measuring operations.
- The ALMEMO[®] D6 plug measures the frequency signal of the rotating vane with high resolution.
- 1 measuring channel is preprogrammed (ex works): Flow velocity (m/s, v).

Technical data

Maximum resolution	0.01 m/s	Multi-point adjustment	sensor specific, saved within the
Nominal conditions	22 °C ±2 K, 1013 mbar		ALMEMO [®] D6 plug of
Connecting cable	permanently fitted cable,		the adapter cable
	with Lemo plug	Refresh rate	0.5 seconds for all channels
ALMEMO [®] adapter cable	Lemo coupling cable,	Averaging period	2 seconds, programmable from 2
	0.2 meters,	to 100 seconds	
	with ALMEMO [®] D6 plug	Supply voltage	6 to 13 VDC
ALMEMO [®] D6 plug		Current consumption	8 mA
Frequency measurement	resolution 0.01 Hz	General features for the ALMEM	O [®] D6 sensors: see page 15

Digital vane anemometer for water FVAD 15-H16GFAMC40





Technical data

Variant:	Micro, aluminum,
	for water
Measured medium:	water
	(precondition: no cavitation)
Operative range:	-20 to +100 °C (including cable)
Pressure resistance:	up to 3 bar overpressure
Measuring range:	in water: 0.06 to 10 m/s
Accuracy:	\pm (+0.5 % of final value sensor
	+ 1.0 % of measured value)
	specific multi-point adjustment
Type of rotating vane:	MC40GFA, aluminum
Measuring head:	
dimension ØK	aluminum, Ø 16 mm
dimension LK	53 mm
dimension B	10.65 mm

Sensor shaft:	Aluminum, Ø 16 mm	
	(dimension ØS)	
Sensor length:	163 mm (dimension C)	
Cable exit:	Thread M 14 x 1.5 (dimension IG)	
Cable length:	2 m	

New from 11/2023 for impeller for water: Supplied with factory calibration certificate (mandatory): Calibration with medium water at 6 calibration values in the measuring range of the sensor, incl. multi-point adjustment of the sensor.

Accessories

Extension set Ø 16 mm, stainless steel, 3 pipes 350 mm each. 3 O-rings (material: FPM75) Other accessories: see page 208

Order no.

ZV9915H16VR3

Variants

Order no.

Digital vane anemometer for water, up to 10 m/s (water), up to 100°C, integrated fixed cable, adapter cable with ALMEMO® D6 plug. Incl. factory calibration certificate (mandatory) with medium water. FVAD15H16GFAMC40

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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.

ALMEMO® D6

Air flow

Order no.

Digital vane anemometer with direction detection FVAD 15-H25RGAMN40





Digital vane anemometer FVAD 15-H25RGAMN40

Technical data

Variant:	Mini, aluminum, with integrated	Measuring head:	Aluminum, Ø 25 mm
Measured medium:	air and gases		dimension A Ø 18.2 mm
Operative range:	-20 to +125 °C (including cable)		dimension B 13 mm
Pressure resistance:	up to 6 bar overpressure	Sensor shaft:	Aluminum, Ø 25 mm
Measuring range:	\pm 0.4 to \pm 40 m/s	Sensor length:	166 mm (dimension D)
	with direction detection	Cable exit:	Thread M 22 x 1.5
Accuracy:	\pm (+0.5 % of final value sensor	Cable length:	2 m
	+ 1.0 % of measured value)		
	specific multi-point adjustment		
Type of rotating vane:	MN40GA, aluminum		

Accessories	Order no.
Extension set Ø 25 mm, stainless steel, 3 tubes 350 mm each, 3 O-rings (material: FPM75)	ZV9915H25VR3
Other accessories: see page 208	

Variants

Digital vane anemometer for air and gases, up to 40 m/s, with integrated direction detection, up to 125°C, integrated fixed cable, adapter cable with ALMEMO[®] D6 plug. **FVAD15H25RGAMN40**

Air flow

Digital vane anemometer, operating range up to 260 °C FVAD 15-H25GEMN40T2



Technical data

Variant:	Mini, stainless steel, for high-temperature up to 260 °C	Measuring head:	stainless steel, Ø 25 mm dimension C 81 mm
Measured medium:	air and gases		dimension A Ø 18.2 mm
Operative range:	-40 to +260 °C (including high-		dimension B 14 mm
temperature cable)		Sensor shaft:	stainless steel, Ø 25 mm
Pressure resistance:	up to 10 bar overpressure	Sensor length:	170 mm (dimension D)
Measuring range:	0.5 to 40 m/s	Cable exit:	Thread M 22 x 1.5
Accuracy:	\pm (+0.5 % of final value sensor	Cable length:	2 m high-temperature cable
	+ 1.0 % of measured value)		(up to 260 °C),
	specific multi-point adjustment		cable repeater (-30 to 125 °C),
Type of rotating vane:	MN40GE, stainless steel		1.5 m cable (up to 125 °C)

Accessories	Order no.
Extension set Ø 25 mm, stainless steel, 3 tubes 350 mm each, 3 O-rings (material: FPM75. Application range -20 +200 °C)	: ZV9915H25VR3
Other accessories: see page 208	
Variants	Order no.
Digital vane anemometer for air and gases, up to 40 m/s, up to 260 °C, integrated fixed cable, adapter cable with ALMEMO [®] D6 plug.	FVAD15H25GEMN40T2