new

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

FVAD 15 -H120 / -H140

FVAD 15 -H220 / -H240

04/2019 • We reserve the right to make technical changes.

Technical data and functions

- The precision probe heads and the sensor shaft are made of aluminum.
- 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 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.
- 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 temperature	22 °C ±2 K
Connection cable	permanently connected cable, 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

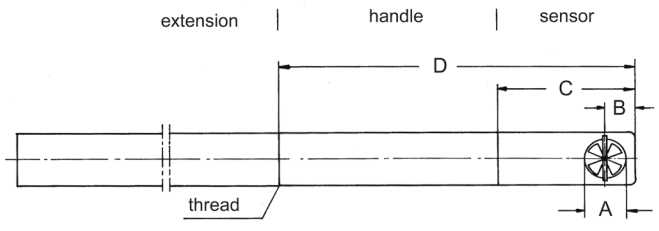
Refresh rate	0.5 seconds for all channels
Averaging period	2 seconds, programmable from 2 to 100 s
Supply voltage	6 to 13 VDC
Current consumption	8 mA

For more information about general features of the ALMEMO® D6 sensors, refer to page 01.05

Accessories	Order no.
Extension set Ø 15 mm, 4 x 255 mm	**ZV9915VR3**
Thread adapter M22x1,5 for extension set, for FVAD 15-H120/ -H140	**ZV9915M22**
Thread adapter M14x1,5 for extension set, for FVAD 15-H220/ -H240	**ZV9915M14**

new

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



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.

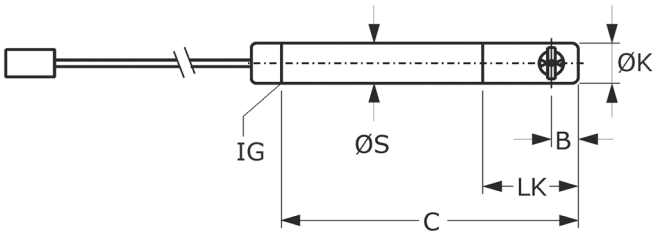
Probe head:	aluminum, Ø 25 mm dimensions C 60 mm dimensions A Ø 18.2 mm dimensions B 13.4 mm
Sensor shaft:	Aluminum, Ø 25 mm
Sensor length:	dimensions D 170 mm
Cable exit:	thread M 22 x 1.5
Cable length:	2 m

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



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 ØK Ø 16 mm dimensions LK 53 mm dimensions B 10,65 mm
Sensor shaft:	Aluminum, dimensions ØS 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**

04/2019 • We reserve the right to make technical changes.

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04/2019 • We reserve the right to make technical changes.

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 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.
- Several measuring heads can be used for measurements in air and gases as well as in liquids.
- 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
Nominal temperature	22 °C ±2 K
Connecting cable	permanently fitted cable, with ALMEMO® D6 plug

ALMEMO® D6 plug	
Frequency measurement	resolution 0.01 Hz
Refresh rate	0.5 seconds for all channels
Averaging period to 100 seconds	2 seconds, programmable from 2
Supply voltage	6 to 13 VDC
Current consumption	8 mA

General features for the ALMEMO® D6 sensors: see page 01.08

Further variants are available upon request!

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.

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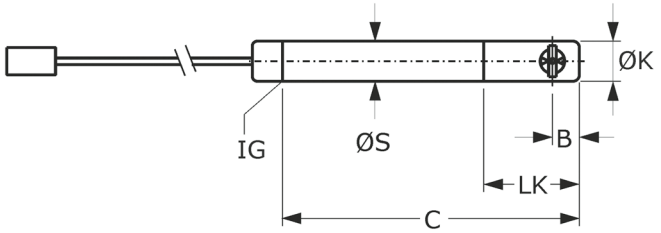
Digital vane anemometer FVAD 15-H16GFAMC40



Technical data

Variant:	Micro, aluminum, suitable also for liquids
Measured medium:	air and gases or liquids (precondition: no cavitation)
Operative range:	-20 to +100 °C (including cable)
Pressure resistance:	up to 3 bar overpressure
Measuring range:	in air: 0.6 to 40 m/s, or in liquids: 0.06 to 10 m/s please specify the desired medium.
Accuracy:	± (+0.5 % of final value sensor + 1.0 % of measured value) for the specified medium 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) greater lengths are optionally available with an extension bar (only ex works)
Cable exit:	Thread M 14 x 1.5 (dimension IG)
Cable length:	2 m

Option

	Order no.
Extension bar aluminum, Ø 16 mm, length 350 mm, installed on the rotating vane ex works, not removable!	OV9915HVS16A

Variants

	Order no.
Digital vane anemometer for air and gases or for liquids, up to 40 m/s (air and gases), up to 100°C, integrated fixed cable, with ALMEMO® D6 plug. Please indicate the desired medium!	**FVAD15H16GFAMC40**

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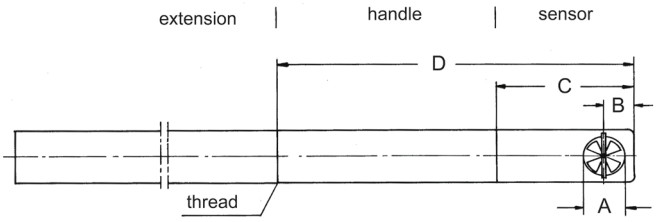
new

Digital vane anemometer series FVAD 15-H25



Digital vane anemometer FVAD 15-H25RGAMN40

Technical data

Variant: direction detection	Mini, aluminum, with integrated
Measured medium:	air and gases
Operative range:	-20 to +125 °C (including cable)
Pressure resistance:	up to 6 bar overpressure
Measuring range:	± 0.4 to ± 40 m/s with direction detection
Accuracy:	± (+0.5 % of final value sensor + 1.0 % of measured value) specific multi-point adjustment
Type of rotating vane:	MN40GA, aluminum

Measuring head:	Aluminum, Ø 25 mm dimension C 66 mm dimension A Ø 18.2 mm dimension B 13 mm
Sensor shaft:	Aluminum, Ø 25 mm
Sensor length:	166 mm (dimension D), greater lengths are optionally available with an extension bar (only ex works)
Cable exit:	Thread M 22 x 1.5
Cable length:	2 m

Option

	Order no.
Extension bar aluminum, Ø 25 mm, length 350 mm, installed on the rotating vane ex works, not removable!	OV9915HVS25A

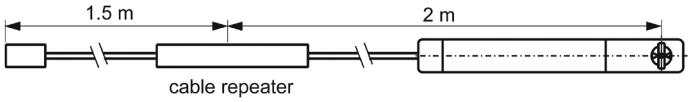
Variants

	Order no.
Digital vane anemometer for air and gases, up to 40 m/s, with integrated direction detection, up to 125°C, integrated fixed cable, with ALMEMO® D6 plug.	**FVAD15H25RGAMN40**

11/2019 • We reserve the right to make technical changes.

new

Digital vane anemometer FVAD 15-H25GEMN40T2



Technical data

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

Option

	Order no.
Extension bar stainless steel, Ø 25 mm, length 350 mm, temperature-resistant from -20 to +240 °C (VITON O-ring), installed on the rotating vane ex works, not removable!	OV9915HVS25E

Variants

	Order no.
Digital vane anemometer for air and gases, up to 40 m/s, up to 260 °C, integrated fixed cable, with ALMEMO® D6 plug.	**FVAD15H25GEMN40T2**

04/2019 • We reserve the right to make technical changes.