

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



FVAD 15 -H120 / -H140



FVAD 15 -H220 / -H240

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

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

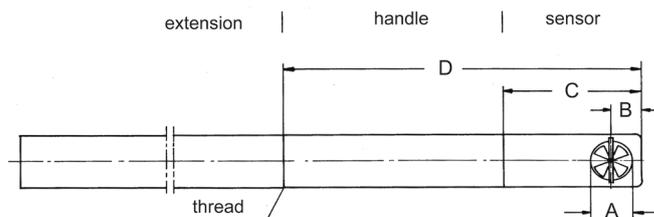
Accessories

Extension set Ø 15 mm, 4 x 255 mm	
Thread adapter M22x1,5 for extension set, for FVAD 15-H120/ -H140	
Thread adapter M14x1,5 for extension set, for FVAD 15-H220/ -H240	

Order no.

ZV9915VR3
ZV9915M22
ZV9915M14

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



Technical data:

Version:	mini, aluminum	Probe head:	aluminum, Ø 25 mm
Measured medium:	air/gas		dimensions C 60 mm
Operative range:	-20 to +125 °C (including cable)		dimensions A Ø 18.2 mm
Pressure resistance:	up to 6 bar overpressure		dimensions B 13.4 mm
Measuring range:	refer to Variants	Sensor shaft:	Aluminum, Ø 25 mm
Accuracy:	± (+0.5 % of final value sensor + 1.0 % of measured value) specific multi-point adjustment.	Sensor length:	dimensions D 170 mm
		Cable exit:	thread M 22 x 1.5
		Cable length:	2 m

Variants (including manufacturer's test certificate)

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

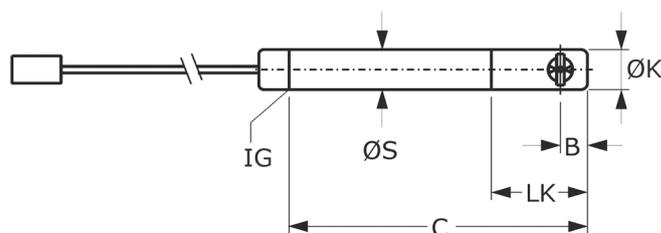
Probe head MN40GA, measuring range of 0.4 to 40 m/s

Order no.

FVAD15H120

FVAD15H140

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



Technical data:

Version:	micro, aluminum,	Probe head:	aluminum,
Measured medium:	air/gas		dimensions ØK Ø 16 mm
Operative range:	-20 to +125 °C (including cable)		dimensions LK 53 mm
Pressure resistance:	up to 3 bar overpressure		dimensions B 10,65 mm
Measuring range:	refer to Variants	Sensor shaft:	Aluminum,
Accuracy:	± (+0.5 % of final value sensor + 1.0 % of measured value) specific multi-point adjustment.		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)

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

Probe head MC40GA, measuring range of 0.7 to 40 m/s

Order no.

FVAD15H220

FVAD15H240

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

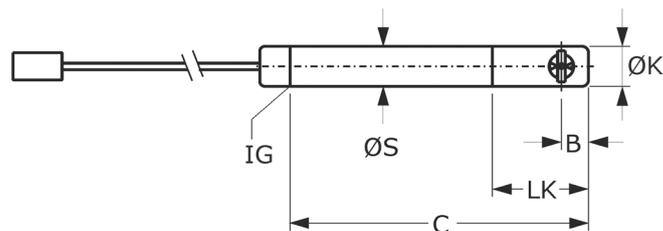
Maximum resolution	0.01 m/s
Nominal temperature	22 °C ±2 K
Connecting cable	permanently fitted cable, with ALMEMO® D6 plug

ALMEMO® D6 plug	
Frequency measurement	resolution 0.01 Hz
Refresh rate	0.5 seconds for all channels
Averaging period	2 seconds, programmable from 2 to 100 seconds
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!

Digital vane anemometer FVAD 15-H16GFAMC40



Technical data

Variant:	Micro, aluminum, suitable also for liquids	Type of rotating vane:	MC40GFA, aluminum
Measured medium:	air and gases or liquids (precondition: no cavitation)	Measuring head: dimension ØK	aluminum, Ø 16 mm
Operative range:	-20 to +100 °C (including cable)	dimension LK	53 mm
Pressure resistance:	up to 3 bar overpressure	dimension B	10.65 mm
Measuring range:	in air: 0.6 to 40 m/s, or in liquids: 0.06 to 10 m/s please specify the desired medium.	Sensor shaft:	Aluminum, Ø 16 mm (dimension ØS)
Accuracy:	± (+0.5 % of final value sensor + 1.0 % of measured value) for the specified medium specific multi-point adjustment	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

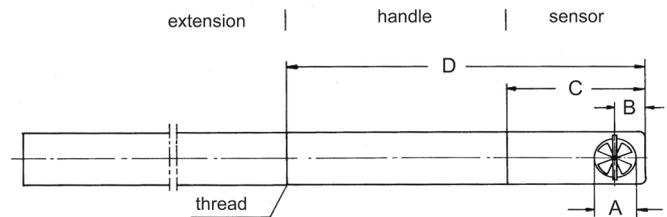
Variants

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

Digital vane anemometer series FVAD 15-H25



Digital vane anemometer FVAD 15-H25GAMN40

Technical data

Variant:	Mini, aluminum	dimension A Ø 18.2 mm
Measured medium:	air and gases	dimension B 13.4 mm
Operative range:	-20 to +125 °C (including cable)	Sensor shaft: aluminum, Ø 25 mm
Pressure resistance:	up to 6 bar overpressure	Sensor length: 170 mm (dimension D), greater lengths are optionally available with an extension bar (only ex works)
Measuring range:	0.4 to 40 m/s	Cable exit: Thread M 22 x 1.5
Accuracy:	± (+0.5 % of final value sensor + 1.0 % of measured value) specific multi-point adjustment	Cable length: 2 m
Type of rotating vane:	MN40GA, aluminum	
Measuring head:	Aluminum, Ø 25 mm dimension C 60 mm	

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

Ausführungen	Order no.
Digital vane anemometer for air and gases, up to 40 m/s, up to 125°C, integrated fixed cable, with ALMEMO® D6 plug.	FVAD15H25GAMN40

Digital vane anemometer FVAD 15-H25RGAMN40

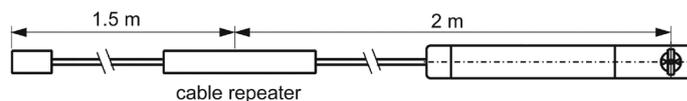
Technical data

Variant:	Mini, aluminum, with integrated direction detection	Measuring head:	Aluminum, Ø 25 mm dimension C 66 mm dimension A Ø 18.2 mm dimension B 13 mm
Measured medium:	air and gases	Sensor shaft:	Aluminum, Ø 25 mm
Operative range:	-20 to +125 °C (including cable)	Sensor length:	166 mm (dimension D), greater lengths are optionally available with an extension bar (only ex works)
Pressure resistance:	up to 6 bar overpressure	Cable exit:	Thread M 22 x 1.5
Measuring range:	± 0.4 to ± 40 m/s with direction detection	Cable length:	2 m
Accuracy:	± (+0.5 % of final value sensor + 1.0 % of measured value) specific multi-point adjustment		
Type of rotating vane:	MN40GA, aluminum		

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

Ausführungen	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

Digital vane anemometer FVAD 15-H25GEMN40T2



Technical data

Variant:	Mini, stainless steel, for high-temperature up to 260 °C	dimension A Ø 18.2 mm dimension B 14 mm
Measured medium:	air and gases	Sensor shaft: stainless steel, Ø 25 mm
Operative range:	-40 to +260 °C (including high- temperature cable)	Sensor length: 170 mm (dimension D), greater lengths are optionally available with an extension bar (only ex works)
Pressure resistance:	up to 10 bar overpressure	Cable exit: Thread M 22 x 1.5
Measuring range:	0.5 to 40 m/s	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)
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	

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

Ausführungen

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