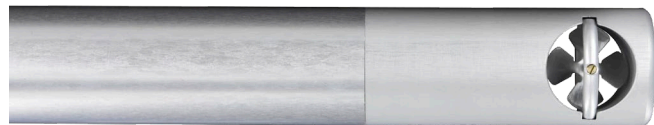


## Digital precision vane anemometer FVAD 15 -H120 / -H140 / -H220 / -H240 with ALMEMO® D6 plug



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).

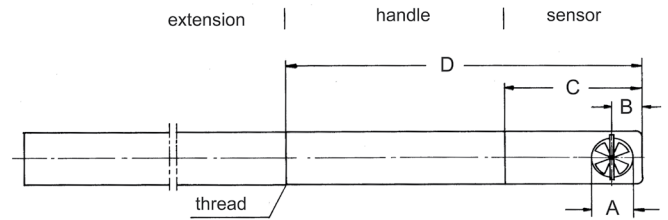
### Technical data:

Maximum resolution	0.01 m/s
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

## 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:	± (1.0 % of measured value + 0.5 % of final value) sensor 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

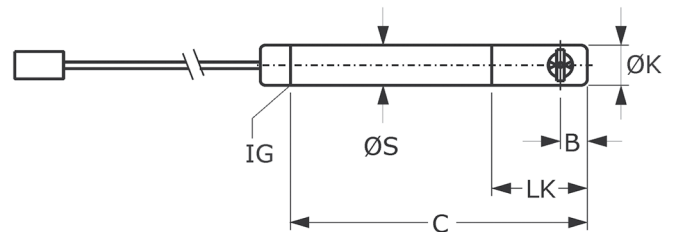
## Variants (including manufacturer's test certificate)

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,
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:	± (1.0 % of measured value + 0,5 % of final value) sensor 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)

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.
- 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).

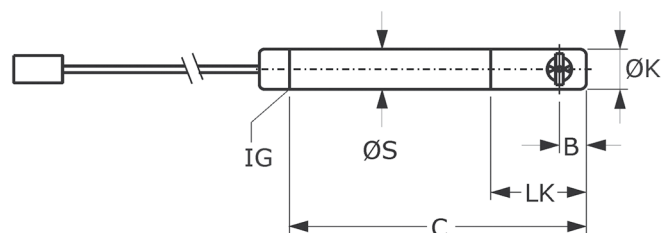
### Technical data

Maximum resolution	0.01 m/s	<b>ALMEMO® D6 plug</b>	
Nominal temperature	22 °C ±2 K	Frequency measurement	resolution 0.01 Hz
Connecting cable	permanently fitted cable, with ALMEMO® D6 plug	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:	± (1.0 % of meas. val. + 0.5 % of final value) for the specified medium.	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

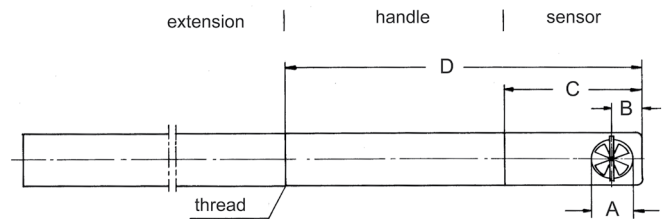
## Variants

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

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

## Ausführungen

Digital vane anemometer for air and gases, up to 40 m/s, up to 125°C, integrated fixed cable, with ALMEMO® D6 plug.

Order no.  
**FVAD15H25GAMN40**

## Digital vane anemometer FVAD 15-H25RGAMN40

## Technical data

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

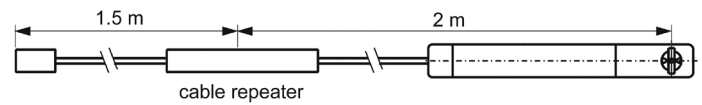
Option	Order no.
Extension bar aluminum, Ø 25 mm, length 350 mm, installed on the rotating vane ex works, not removable!	OV9915HVS25A

## Ausführungen

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.

Order no.  
**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:	± (1,0 % of measured value + 0.5 % of final value)	
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