# Air flow

## **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 Some variants detect the direction of flows and display the 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<sup>®</sup> V7 device.
- Several measuring heads can be used for measurements in air and gases as well as in liquids.
- 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<sup>®</sup> 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                  | ALMEMO <sup>®</sup> D6 plug        |                                |
|---------------------|---------------------------|------------------------------------|--------------------------------|
| Nominal temperature | 22 °C ±2 K                | Frequency measurement              | resolution 0.01 Hz             |
| Connecting cable    | permanently fitted cable, | Refresh rate                       | 0.5 seconds for all channels   |
|                     | with ALMEMO® D6 plug      | Averaging period<br>to 100 seconds | 2 seconds, programmable from 2 |

Supply voltage

Current consumption

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

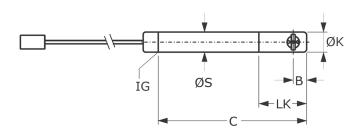
6 to 13 VDC

8 mA

Further variants are available upon request!

## Digital vane anemometer FVAD 15-H16GFAMC40





### **Technical data**

| Variant:             | Micro, aluminum,                 | Type of rotating vane: | MC40GFA, aluminum                |
|----------------------|----------------------------------|------------------------|----------------------------------|
|                      | suitable also for liquids        | Measuring head:        |                                  |
| Measured medium:     | air and gases or liquids         | dimension ØK           | aluminum, Ø 16 mm                |
|                      | (precondition: no cavitation)    | dimension LK           | 53 mm                            |
| Operative range:     | -20 to +100 °C (including cable) | dimension B            | 10.65 mm                         |
| Pressure resistance: | up to 3 bar overpressure         | Sensor shaft:          | Aluminum, Ø 16 mm                |
| Measuring range:     | in air: 0.6 to 40 m/s, or        |                        | (dimension ØS)                   |
|                      | in liquids: 0.06 to 10 m/s       | Sensor length:         | 163 mm (dimension C)             |
|                      | please specify the desired       |                        | greater lengths are optionally   |
|                      | medium.                          |                        | available with an extension bar  |
| Accuracy:            | $\pm$ (1.0 % of meas. val.       |                        | (only ex works)                  |
|                      | +0.5 % of final value)           | Cable exit:            | Thread M 14 x 1.5 (dimension IG) |
|                      | for the specified medium.        | 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

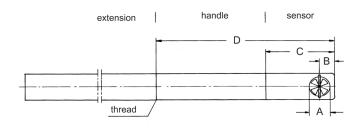
#### Order no.

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<sup>®</sup> D6 plug. Please indicate the desired medium! FVAD15H16GFAMC40

# Air flow

## Digital vane anemometer series FVAD 15-H25





## Digital vane anemometer FVAD 15-H25GAMN40

## **Technical data**

| Variant:               | Mini, aluminum                       |                | dimension B 13.4 mm             |
|------------------------|--------------------------------------|----------------|---------------------------------|
| Measured medium:       | air and gases                        | Sensor shaft:  | aluminum, Ø 25 mm               |
| Operative range:       | -20 to +125 °C (including cable)     | Sensor length: | 170 mm (dimension D),           |
| Pressure resistance:   | up to 6 bar overpressure             |                | greater lengths are optionally  |
| Measuring range:       | 0.4 to 40 m/s                        |                | available with an extension bar |
| Accuracy:              | $\pm$ (1.0 % of measured value + 0.5 |                | (only ex works)                 |
| % of final value)      |                                      | Cable exit:    | Thread M 22 x 1.5               |
| Type of rotating vane: | MN40GA, aluminum                     | Cable length:  | 2 m                             |
| 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  | Order no.    |

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

## FVAD15H25GAMN40

Order no.

## Digital vane anemometer FVAD 15-H25RGAMN40

#### **Technical data**

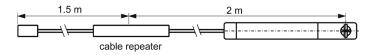
| Variant:               | Mini, aluminum, with integrated  |                | dimension C 66 mm               |
|------------------------|----------------------------------|----------------|---------------------------------|
| direction detection    | ,, <u>B</u>                      |                | dimension A Ø 18.2 mm           |
| Measured medium:       | air and gases                    |                | dimension B 13 mm               |
| Operative range:       | -20 to +125 °C (including cable) | Sensor shaft:  | Aluminum, Ø 25 mm               |
| Pressure resistance:   | up to 6 bar overpressure         | Sensor length: | 166 mm (dimension D),           |
| Measuring range:       | $\pm$ 0.4 to $\pm$ 40 m/s        |                | greater lengths are optionally  |
|                        | with direction detection         |                | available with an extension bar |
| Accuracy:              | $\pm$ (1.0 % of measured value   |                | (only ex works)                 |
|                        | +0.5 % of final value)           | Cable exit:    | Thread M 22 x 1.5               |
| Type of rotating vane: | MN40GA, aluminum                 | Cable length:  | 2 m                             |
| 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. FVAD15H25RGAMN40

## Digital vane anemometer FVAD 15-H25GEMN40T2



### **Technical data**

| Variant:               | Mini, stainless steel,            |                | dimension A Ø 18.2 mm           |
|------------------------|-----------------------------------|----------------|---------------------------------|
|                        | for high-temperature up to 260 °C |                | dimension B 14 mm               |
| Measured medium:       | air and gases                     | Sensor shaft:  | stainless steel, Ø 25 mm        |
| Operative range:       | -40 to +260 °C (including high-   | Sensor length: | 170 mm (dimension D),           |
| temperature cable)     |                                   |                | greater lengths are optionally  |
| Pressure resistance:   | up to 10 bar overpressure         |                | available with an extension bar |
| Measuring range:       | 0.5 to 40 m/s                     |                | (only ex works)                 |
| Accuracy:              | $\pm$ (1,0 % of measured value    | Cable exit:    | Thread M 22 x 1.5               |
|                        | +0.5 % of final value)            | Cable length:  | 2 m high-temperature cable      |
| Type of rotating vane: | MN40GE, stainless steel           |                | (up to 260 °C),                 |
| Measuring head:        | stainless steel, Ø 25 mm          |                | cable repeater (-30 to 125 °C), |
|                        | dimension C 81 mm                 |                | 1.5 m cable (up to 125 °C)      |

| 0 | ption |  |
|---|-------|--|
|   |       |  |

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

Digital vane anemometer for air and gases, up to 40 m/s, up to 260 °C, integrated fixed cable, with ALMEMO<sup>®</sup> D6 plug.

Order no.

Order no.

FVAD15H25GEMN40T2