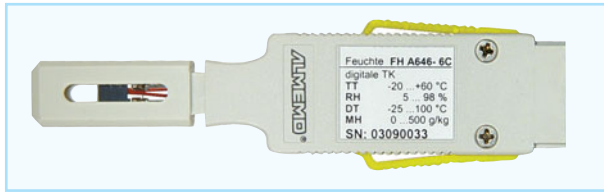


HUMIDITY

Capacitive Humidity Sensor Type FHA6466



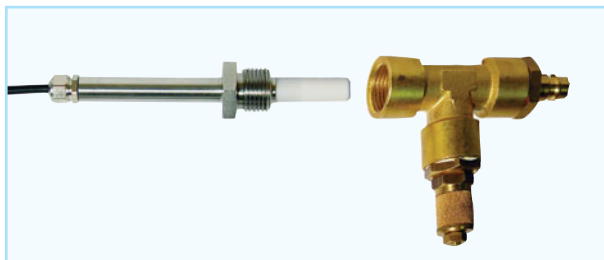
- ▶ Compact sensor integrated into ALMEMO® connector.
- ▶ Suitable for control and long term measurements in climatology.

Types (including manufacturer's test certificate)

Length 85mm

Order No. FHA6466

Pressure Sealed Humidity Sensor Type FHA6467



- ▶ Compact screwed sensor.
- ▶ For pressure lines up to 16bar.
- ▶ Sensor usable in the range -20 ... 80°C/5 ... 98% r.H.

Accessories:

Adapter for measuring compressed air Order No. ZB96467AP

Protective caps, see 09.06

Extension cable, 2m long Order No. ZA9060VK2

Extension cable, 4m long Order No. ZA9060VK4

Intelligent extension cable,
10 meters long Order no. ZA9060VKC10

Types

(including manufacturer's test certificate and pressure test protocol)

Length 140mm

Order No. FHA646E7C

Technical Data:

Operative range : -20 to +60 °C / 5 to 98 % r.H.

Humidity Measuring Circuit

Measuring range: 0 to 100 % r.H.

Sensor: capacitive

Accuracy: ±2% r.H. in the range < 90% RH at nominal temperature

Reproducibility: < 1% r.H. at nominal temperature

Nominal temperature: 25°C ±3°C

Sensor operating pressure: atmospheric pressure

Response time T₉₀: approx. 10s (without filter) at 5m/s

Temperature Measuring Circuit

Sensor: NTC type N

Accuracy: -20 ... 0°C: ±0.4°C
0 ... 60°C: ±0.1°C

Reproducibility: 0.1°C

Slotted case: plastic, 30 x 11 x 7.6 (without filter)

Technical Data:

Operative range : -20 to +80 °C / 5 to 98 % r.H.

Humidity Measuring Circuit

Measuring range: 0 to 100 % r.H.

Sensor: capacitive

Accuracy: ±2% r.H. in the range < 90% RH at nominal temperature

Reproducibility: < 1% r.H. at nominal temperature

Nominal temperature: 25°C ±3°C

Sensor operating pressure: to 16 bar

Response time T₉₀: approx. 8s (without filter)

Temperature Measuring Circuit

Sensor: NTC type N

Accuracy: -20 ... 0°C: ±0.4°C
0 ... 70°C: ±0.1°C
70 ... 80°C: ±0.6°C

Reproducibility: 0.1°C

Mechanical Construction

Sensor tube: total length 140mm, 12mm Ø

Installation: screw thread G1/2",
insertion depth 47mm

Protective cap: SK6, PTFE-Sinterfilter

Cable: 1.5m long, ALMEMO® connector,
longer ALMEMO® cable (up to 30m),
available on request