## Air humidity

## Capacitive humidity sensor FHA 646 R, miniature sensor

• Compact sensor, extremely small dimensions

- Wide operating temperature range
- Particularly suitable for measuring operations between PCBs,

## **Technical data**

inside cases, in walls, ceilings, and insulation layers used in the construction industry, and for the protection of listed historic monuments

Operative range	-30 to +100 °C, 5 to 98 % RH	Temperature measuring circuit	
Humidity measuring circ Measuring range Sensor	0 to 100 % RH capacitive	Sensor Accuracy Reproducibility	NTC type N -20 to 0 ±0.4 K, 0 to +70 ±0.2 K +70 to +100 ±0.6 K 0.1 K
Accuracy Reproducibility Nominal temperature Response time T63	±2 % RH in the range <90 % RH at nominal temperature <1% RH at nominal temperature +25 ±3 °C approx. 10 seconds at 1 m/s	Mechanical design Sensor tube Protective cap Cable	nickel-plated, 50 mm long, 5 mm Ø None High-temperature cable (up to +100 °C),
Response time 105			2 meters long, with ALMEMO <sup>®</sup> plug (no other lengths available)

The sensor can only be operated by plugging DIRECTLY onto an ALMEMO<sup>®</sup> device. (NOT with extension cables ZA9060VKx or ZA9090VKCx). Or alternatively, the following sensor types can be used. FHAD36RAS up to +100 °C (see page 197) FHAD46-C2 or FHAD46-C0 Compact design (see page 195)

Accessories	Order no.
PTFE filter, inside diameter 5 mm suitable for protection against dust, not water-proof	ZB9646SKR

Variants	Order no.
Miniature sensor for temperature / humidity, with fitted high-temperature cable, length 2 meters, with ALMEMO <sup>®</sup> plug	FHA646R

DAkkS or factory calibration KH9xxx temperature, humidity for measuring chain (sensor + device), see chapter "Calibration certificates". DAkkS calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.