



High-precision humidity and temperature probe

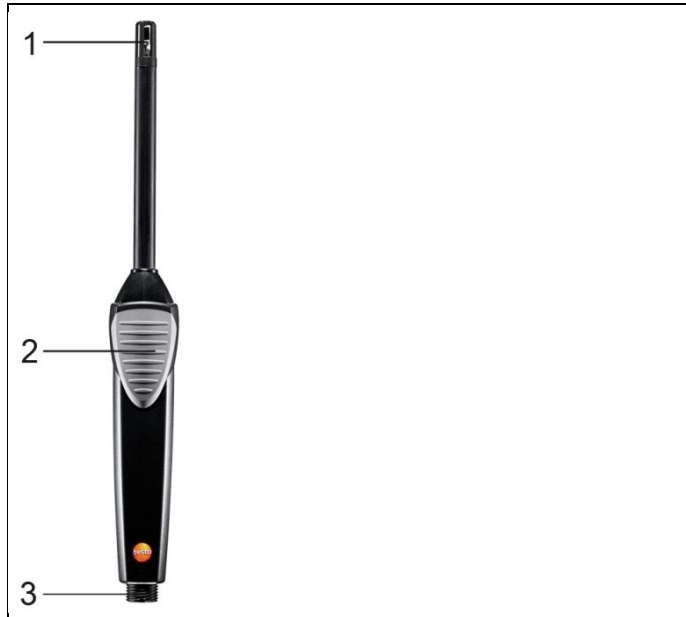
Application information



Application

The high-precision humidity and temperature probe 0636 9743 is used in conjunction with the testo 480 to measure humidity and temperature.

Overview



1 Sensors

CAUTION

Damage to sensor!

> Do not touch the sensor.

2 Handle

3 Connection for plug-in head cable (art. no. 0430 0100)

Technical data

Feature	Values
Humidity measuring range	0 to 100 %RH (non-condensing)
Humidity accuracy (at 25 °C) ±1 digit ¹	0 to 90 %RH: ±(1.0 %RH + 0.7% of meas. val.) 90 to 100 %RH: ±(1.4 %RH + 0.7% of meas. val.)
Temperature coefficient	±0,03 %rH / K
Long-term stability	±1 %rH / year
Resolution	0,1 %rH
Temperature measuring range	-20 to +70 °C (probe head)
Temperature accuracy (at 25 °C) ±1 digit	±0,2 °C (+15 °C to +30 °C) ±0,5 °C (remaining measuring range)
Resolution	0,1 °C
Area of use handle	0 to +40 °C

The sensor accuracy corresponds to the system accuracy.

i The digital probe allows measurement values to be processed directly in the probe. This technology eliminates instrument measurement uncertainty.
For calibration, the probe alone (without the hand instrument) can be sent away.
Calculating the determined calibration data in the probe generates a zero-error display.

¹ The measurement uncertainty for the relative humidity was calculated according to GUM and includes hysteresis, dispersion, linearity, repeatability, uncertainties of adjustment and test site, display resolution. This does not include the uncertainty values of long-term stability and drift in the case of long-term high humidity measurement.

