High-precision humidity and temperature probe

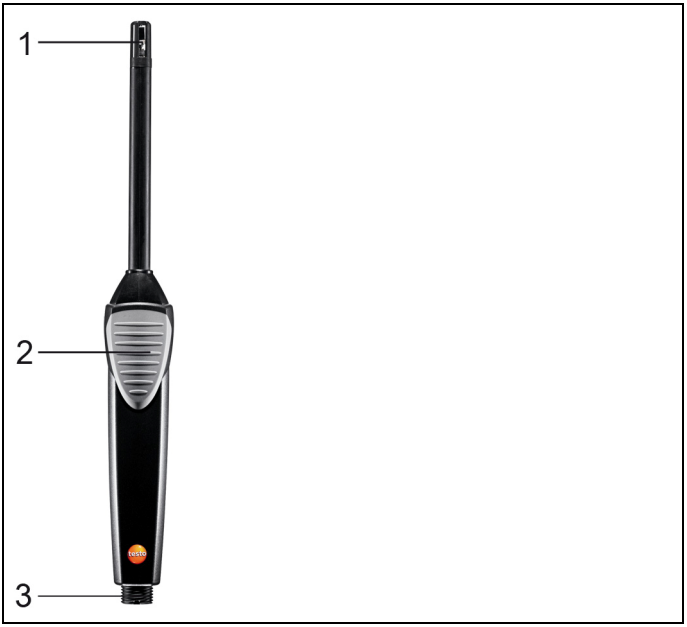
Application information

Application

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

The control and adjustment set 0554 0660 is not suitable for adjustment. We recommend an annual calibration at Testo.

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 22 °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.) ±0.03 %RH/K (based on 25 °C)
Temperature measuring range	-20 to +70 °C (probe head)
Temperature accuracy (at 22 °C) ±1 digit	±0.5 °C
Area of use handle	0 to +40 °C

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.