

## Suitable probes at a glance

Probes	Illustration	Meas. range	Accuracy	t90	Conn.	Part no.
<b>Air probes</b>						
Standard indoor air quality probe up to +70°C		0... +100 %RH -20... +70 °C	±2 %RH (+2... +98 %RH) ±0.4 °C (-10... +50 °C) ±0.5 °C (-20... -10.1 °C) ±0.5 °C (+50.1... +70 °C)	12 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 9740
Duct humidity/temperature probe, can be connected to telescopic handle <small>Telescopic handle 0430 9715, see Ordering data for Accessories</small>		0... +100 %RH -20... +70 °C	±2 %RH (+2... +98 %RH) ±0.4 °C (-10... +50 °C) ±0.5 °C (-20... -10.1 °C) ±0.5 °C (+50.1... +70 °C)	12 s	Fixed cable	0636 9715
Thin humidity probe incl. 4 attachable protection caps for ambient air measurements, measurements in exhaust air ducts and equilibrium moisture measurements		0... +100 %RH -20... +70 °C	±2 %RH (+2... +98 %RH) ±0.4 °C (-10... +50 °C) ±0.5 °C (-20... -10.1 °C) ±0.5 °C (+50.1... +70 °C)	15 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 2130
Highly accurate reference humidity/temp. probe incl. calibration certificate		0... +100 %RH -20... +70 °C	±1 %RH (+10... +90 %RH)* ±2 %RH (0... +9.9 %RH) ±2 %RH (+90.1... +100 %RH) ±0.4 °C (-10... +50 °C) ±0.5 °C (-20... -10.1 °C) ±0.5 °C (+50.1... +70 °C)	12 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 9741
Humidity/temperature probe		-20... +70 °C	±0.4 °C (+0.1... +50 °C) ±0.5 °C (-20... 0 °C) ±0.5 °C (+50.1... +70 °C)		Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 9742
<b>Process humidity</b>						
Standard pressure dew point probe for measurements in compressed air systems		0... +100 %RH -30... +50 °C tpd	±0.9 °C tpd (+0.1... +50 °C tpd) ±1 °C tpd (-4.9... 0 °C tpd) ±2 °C tpd (-9.9... -5 °C tpd) ±3 °C tpd (-19.9... -10 °C tpd) ±4 °C tpd (-30... -20 °C tpd)	300 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 9840
Precision pressure dew point probe for measurements in compressed air systems incl. cert. with test point -40°C tpd		0... +100 %RH -60... +50 °C tpd	±0.8 °C tpd (-4.9... +50 °C tpd) ±1 °C tpd (-9.9... -5 °C tpd) ±2 °C tpd (-19.9... -10 °C tpd) ±3 °C tpd (-29.9... -20 °C tpd) ±4 °C tpd (-40... -30 °C tpd)	300 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 9841
<b>NEW</b> High humidity level probe with heated sensor element, no condensation on sensor		0... +100 %RH -20... +85 °C	±2.5 %RH (0... +100 %RH) ±0.4 °C (-10... +50 °C) ±0.5 °C (-20... -10.1 °C) ±0.5 °C (+50.1... +85 °C)	30 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 2142
Robust high temperature/humidity probe up to +180°C		0... +100 %RH -20... +180 °C	±2 %RH (+2... +98 %RH) ±0.4 °C (+0.1... +50 °C) ±0.5 °C (-20... 0 °C) ±0.5 °C (+50.1... +180 °C)	30 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0628 0021
Flexible humidity probe (does not retain shape) for measurements in inaccessible places		0... +100 %RH -20... +180 °C	±2 %RH (+2... +98 %RH) ±0.4 °C (+0.1... +50 °C) ±0.5 °C (-20... 0 °C) ±0.5 °C (+50.1... +180 °C)	30 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0628 0022
<b>Material and equilibrium moisture</b>						
Flexible humidity probe with mini module for meas. e.g. on material testing rigs, module cable length 1500mm, probe tip 50x19x7mm		0... +100 %RH -20... +125 °C	±2 %RH (+2... +98 %RH) ±0.4 °C (-10... +50 °C) ±0.5 °C (-20... -10.1 °C) ±0.5 °C (+50.1... +125 °C)	20 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0628 0013
Sword probe for measuring humidity and temperature in stacked material		0... +100 %RH -20... +70 °C	±2 %RH (+2... +98 %RH) ±0.4 °C (-10... +50 °C) ±0.5 °C (-20... -10.1 °C) ±0.5 °C (+50.1... +70 °C)	12 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 0340
Robust humidity probe e.g. for measuring equilibrium moisture or for measurements in exhaust ducts to +120°C		0... +100 %RH -20... +120 °C	±2 %RH (+2... +98 %RH) ±0.4 °C (-10... +50 °C) ±0.5 °C (-20... -10.1 °C) ±0.5 °C (+50.1... +120 °C)	30 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 2140
Material moisture probe					Free scaling, reference measurement, no water level	0636 0365
Material/building moisture cable		0 to 100 k Ohm = 100 to 0 %			Displayed values in instrument mean: 100 to 66 wet; 0 to 1 very dry	0636 0565
<b>aw value</b>						
aw value set: pressure-tight precision humidity probe with certificate, measurement chamber and 5 sample bowls (plastic)		0... +1 aW 0... +100 %RH -20... +70 °C	±0.01 aW (+0.1... +0.9 aW) ±0.02 aW (+0.9... +1 aW) ±0.4 °C (-10... +50 °C) ±0.5 °C (-20... -10.1 °C) ±0.5 °C (+50.1... +70 °C)		Reproducibility of aw value ±0.003	0628 0024
* in the temperature range from +10°C to +30°C						
Description	Illustration	Probe type	Meas. range	Accuracy	Conn.	Part no.
Precision pressure probe, 100 Pa, measures differential pressure		Differential pressure probe	0... +100 Pa	±(0.3 Pa ±0.5% of mv) (0... +100 Pa)		0638 1345
Pressure probe, 10 hPa, measures differential pressure		Differential pressure probe	0... +10 hPa	±0.03 hPa (0... +10 hPa)		0638 1445
Pressure probe, 100 hPa, measures differential pressure		Differential pressure probe	0... +100 hPa	±0.5% of mv (+20... +100 hPa) ±0.1 hPa (0... +20 hPa)		0638 1545
Pressure probe, 2000 hPa, measures absolute pressure		Absolute pressure probe	0... +2000 hPa	±5 hPa (0... +2000 hPa)		0638 1645
Low pressure probe, refrigerant-proof stainless steel, without cable		Screw-in thread 7/16" UNF	Low pressure probe	-1... +10 bar ±1% of f.v. (-1... +10 bar) Overload ±32 bar (-1... +10 bar)	Plug-in head, connection cable 0409 1745 required	0638 1740
High pressure probe, refrigerant-proof stainless steel, up to 30 bar, without cable		Screw-in thread 7/16" UNF	High pressure probe	0... +30 bar ±1% of f.v. (0... +30 bar) Overload ±70 bar (0... +30 bar)	Plug-in head, connection cable 0409 1745 required	0638 1840

%RH

 td  
tpd

 g/m<sup>3</sup>

g/kg

aW

°C

J/g

hPa

rpm

mA

V

 Vol. %  
CO<sub>2</sub>

 ppm  
CO