

Suitable probes at a glance

Probes	Illustration	Meas. range	Accuracy	t90	Conn.	Part no.
Air probes						
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
Process humidity						
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
NEW 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
Material and equilibrium moisture						
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
aw value						
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