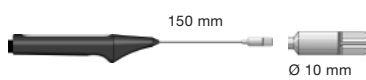
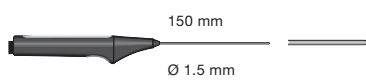
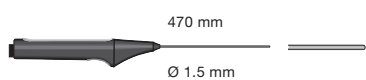
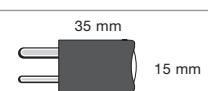
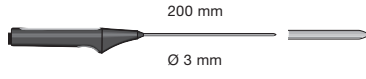


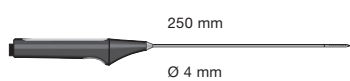




Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t ₉₉	Part no.
Type K (NiCr-Ni)					
Quick-action surface probe, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 150 mm Ø 10 mm	-200 to +300 °C	Class 2 ¹⁾	3 s	0604 0194
Super quick-action immersion/penetration probe for measurements in liquids, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 150 mm Ø 1.5 mm	-200 to +600 °C	Class 1 ¹⁾	1 s	0604 0493
Super quick-action immersion/penetration probe for high temperatures, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 470 mm Ø 1.5 mm	-200 to +1100 °C	Class 1 ¹⁾	1 s	0604 0593
Spare meas. head for pipe wrap probe, TC Type K	 35 mm 15 mm	-60 to +130 °C	Class 2 ¹⁾	5 s	0602 0092


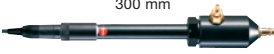
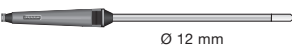
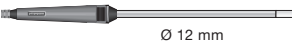

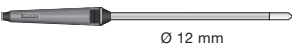

1) According to norm EN 60751, the accuracy of Classes 1 / 2 refers to -40 to +1000/+1200 °C.

Pt100					
Highly accurate immersion/penetration probe, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 200 mm Ø 3 mm	-100 to +350 °C	±(0.06 °C +0.1% of m.v.)	30 s	0628 0015
Flexible precision immersion probe, cable heat-proof up to +300°C, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 1000 mm Ø 3.5 mm Ø 6 mm	-100 to +265 °C	±(0.06 °C +0.1% of m.v.)	80 s	0628 0016







Humidity probes					
Standard ambient air probe up to +70°C, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 Ø 12 mm	0 to +100 %RH -20 to +70 °C	±2 %RH (+2 to +98 %RH) ±0.4 °C (-10 to +50 °C) ±0.5 °C (remaining range)	12 s	0636 9740
Thin humidity probe incl. 4 attachable protection caps for ambient air measurements, measurements in exhaust air ducts and equilibrium moisture measurements, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 250 mm Ø 4 mm	0 to +100 %RH -20 to +70 °C	±2 %RH (+2 to +98 %RH) ±0.4 °C (-10 to +50 °C) ±0.5 °C (-20 to -10.1 °C) ±0.5 °C (+50.1 to +70 °C)	15 s	0636 2130
Highly accurate reference humidity/temp. probe, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 Ø 21 mm	0 to +100 %RH -20 to +70 °C	±1 %RH (+10 to +90 %RH)* ±2 %RH (remaining range) * in the temperature range from +15°C to +30°C ±0.2 °C (+10 to +40 °C) ±0.4 °C (remaining range)	12 s	0636 9741
Humidity/temperature probe, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 Ø 21 mm	0... +100 %RH -20 to +70 °C	±2 %RH (+2... +98 %RH) ±0.4 °C (+0.1 to +50 °C) ±0.5 °C (-20 to 0 °C) ±0.5 °C (+50.1 to +70 °C)	12 s	0636 9742

2) According to standard EN 60751, the accuracy of Class A and B refer to -200 to +600 °C.

Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t ₉₉	Part no.
Probes Process humidity					
Standard pressure dewpoint probe for measurements in compressed air systems , Plug-in head. connection cable 0430 0143 or 0430 0145 required	 300 mm	0 to +100 %RH -20 to +50 °C tpd	±0.9 °C tpd (+5 to +50 °C tpd) ±1 °C tpd (0 to +4.9 °C tpd) ±2 °C tpd (-5 to -0.1 °C tpd) ±3 °C tpd (-10 to -5.1 °C tpd) ±4 °C tpd (-20 to -10.1 °C tpd)		0636 9840
Precision pressure dewpoint probe for measurements in compressed air systems incl. cert. with test point -40°C tpd, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 300 mm	0 to +100 %RH -40 to +50 °C tpd	±0.8 °C tpd (-4.9 to +50 °C tpd) ±1 °C tpd (-9.9 to -5 °C tpd) ±2 °C tpd (-19.9 to -10 °C tpd) ±3 °C tpd (-29.9 to -20 °C tpd) ±4 °C tpd (-40 to -30 °C tpd)		0636 9841
High humidity level probe w/ heated sensor element, no humidity on sensor, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 300 mm Ø 12 mm	0 to +100 %RH -20 to +85 °C	±2.5 %RH (0 to +100 %RH) ±0.4 °C (-10 to +50 °C) ±0.5 °C (-20 to -10.1 °C) ±0.5 °C (+50.1 to +100 °C) * in the temperature range from +10°C to +30°C	30 s	0636 2142
Robust high temperature/humidity probe up to +180°C , Plug-in head. connection cable 0430 0143 or 0430 0145 required	 300 mm Ø 12 mm	0 to +100 %RH -20 to +180 °C	±2 %RH (+2 to +98 %RH) ±0.4 °C (+0.1 to +50 °C) ±0.5 °C (remaining range)	30 s	0628 0021
Flexible humidity probe (does not retain shape) for measurements in inaccessible places , Plug-in head. connection cable 0430 0143 or 0430 0145 required	 1500 mm 100 mm Ø 12 mm	0 to +100 %RH -20 to +180 °C	±2 %RH (+2 to +98 %RH) ±0.4 °C (+0.1 to +50 °C) ±0.5 °C (-20 to 0 °C) ±0.5 °C (+50.1 to +180 °C)	30 s	0628 0022
Probes Material and equilibrium moisture					
Robust humidity probe e.g. for measuring equilibrium moisture or for measurements in exhaust ducts to +120°C, Plug-in head. connection cable 0430 0143 or 0430 0145 required	 300 mm Ø 12 mm	0 to +100 %RH -20 to +120 °C	±2 %RH (+2 to +98 %RH) ±0.4 °C (-10 to +50 °C) ±0.5 °C (remaining range)	30 s	0636 2140
Probes aw value					
aw value set: pressure-tight precision humidity probe with certificate, measurement chamber and 5 sample bowls (plastic), Reproducibility of aw value ±0.003		0 to +1 aW 0 to +100 %RH -20 to +70 °C	±0.01 aW (+0.1 to +0.9 aW) ±0.02 aW (+0.9 to +1 aW) ±1 %RH (+10 to +90 %RH) ±2 %RH (0 to +10 %RH) ±2 %RH (+90 to +100 %RH) ±0.4 °C (-10 to +50 °C) ±0.5 °C (remaining range)		0628 0024
Measuring chamber completely					0554 9860

Covering caps

Caps for humidity probes Ø 12mm and 21mm	Illustration	For humidity probes	Part no.
Metal protection cage, Ø 12 mm for humidity probes, for measurement in flow velocities of less than 10 m/s	 Ø 12 mm	0636 9740, 0636 9715	0554 0755
Cap with wire mesh filter, Ø 12 mm		All humidity probes with Ø 12 mm	0554 0757
PTFE sintered filter, Ø 21 mm, for corrosive substances, high humidity range (long-term measurements), high velocities	 Ø 21 mm	All humidity probes with Ø 21 mm	0554 0666
Sintered PTFE filter, Ø 12 mm, for corrosive media, High humidity range (long-term measurements), high flow velocities.	 Ø 12 mm	0636 9769, 0636 9740, 0636 9715	0554 0756
PTFE sintered filter, Ø 12 mm, for corrosive substances, high humidity range (non-stop measurements), high flow speeds	 Ø 12 mm	0628 0021, 0628 0022, 0636 2140, 0636 2142	0554 0758
Stainless steel sintered cap, Ø 21 mm, can be screwed onto humidity probe, protection in case of high mechanical load and high velocities	 Ø 21 mm	All humidity probes Ø 21 mm	0554 0640
Stainless steel sintered filter, pore size 100 µm, probe protection in dusty atmospheres or higher flow velocities, for measurements at higher flow velocities or in contaminated air	 Ø 12 mm	0636 9740, 0636 9715	0554 0641