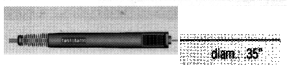
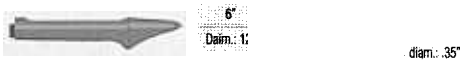
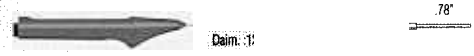
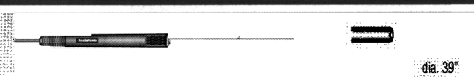
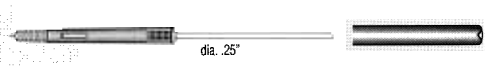
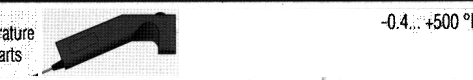
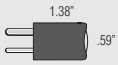
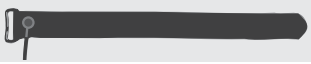
Temperature probes for testo 950, testo 650, testo 400

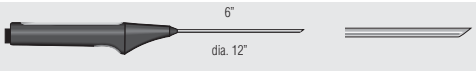
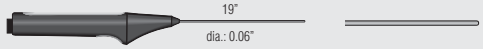
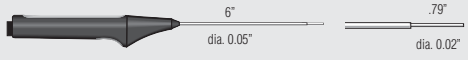
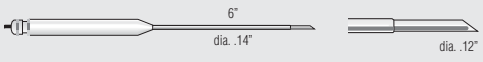
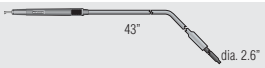
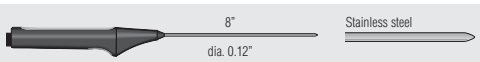
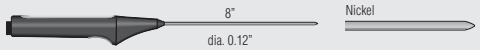
Air probes	Illustration	Meas. range	Accuracy	Sec	Conn.	Part no.
NTC probes						
Highly accurate air probe for air and gas temperature measurements with bare, mechanically protected sensor		-40... +260 °F	To UNI curve	60 s	Fixed cable	0610 9714
RTD probes						
Standard air probe		-330... +1100 °F	Class A	75 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 9773
Precision air probe		-100... +750 °F	1/10 Class B (0 to 100°C) 1/5 Class B (rem. range) to EN 60751	75 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0628 0017
Type K t/c probes						
Fast action immersion/penetration probe for measurements in gases and liquids with a low-mass tip		-330... +1100 °F	Class 1	1 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 9794 0614 9794
Thermocouple, made of fibre-glass insulated thermal pipes, pack of 5 Insulation: twin conductor, flat, oval, opposed and covered with fibre-glass, both conductors are wrapped together with fibre-glass and soaked with lacquer, please order adapter 0600 1693		-330... +750 °F	Class 1	5 s	Please order adapter 0600 1693	0644 1109
Adapter to connect Type K thermocouples and probes with open wire ends					Fixed cable	0600 1693

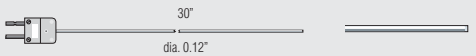
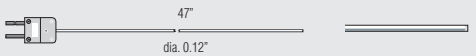
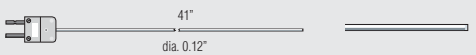
Surface probes	Illustration	Meas. range	Accuracy	Sec	Conn.	Part no.
NiCr-Ni probes						
Quick-action surface probe with sprung thermocouple strip, measuring range short-term to +900°F		-330... +570 °F	Class 2	3 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 0194 0614 0194
Fast action surface probe, probe tip at 90° angle, with sprung thermocouple strip		-330... +570	Class 2	3 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 0994
Rugged surface probe		-330... +1100 °F	Class 1	25 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 9993 0614 9993
Rugged surface probe, (90° angle)		-330... +1100 °F	Class 1	25 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 9893 0614 9893
Rugged surface probe with sprung thermocouple strip for temperatures up to +1300°F		-330... +12900 °F	Class 2	3 s	Fixed cable, coiled	0600 0394
Roller surface probe for measurements on moving items speed range: 59 - 1312"/min		-60... +470 °F	Class 2		Fixed cable, coiled	0600 5093
Magnetic probe, adhesive force approx. 4 lbs., for measurements on metal surfaces		-60... +340 °F	Class 2		Fixed cable	0600 4793
Magnetic probe, adhesive force approx. 2 lbs., for higher temperatures, on metal surfaces		-60... +750 °F	Class 2		Fixed cable	0600 4893
Miniature surface probe for measurements on electronic components, small motors...		-330... +750 °F	Class 2	3 s	Fixed cable	0600 1494
Adhesive thermocouple, pack of 2, carrier material: aluminum foil Is fixed at the measuring point using conventional adhesives or silicone heat paste 0554 0004		-330... +400 °F	Class 1		Please order adapter 0600 1693	0644 1607
Adapter to connect Type K thermocouples and probes with open wire ends					Fixed cable	0600 1693
RTD probes						
Rugged surface probe		-60... +750 °F	Class B	40 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 9973 0628 0018
Infrared probes						
Infrared surface probe for fast non-contact temperature measurement on live, inaccessible and rotating parts		-0.4... +500 °F	±2% of rdg. (+150... +500 °F) ±2 °F (-0.4... +150 °F)	2 s	Fixed cable coiled	0600 0750
Accessories						
Silicone heat paste (5 oz.), Tmax = +500°F Improves heat transfer in surface probes						0554 0004

*with EEPROM: measu easur range saved in probe; t95 extrapolat irface measuring

Temperature probes for testo 950, testo 650, testo 400

Pipe wrap probes	Illustration	Meas. range	Accuracy	Sec	Conn.	Part no.
NTC probes						
Pipe wrap probe for pipes with diameter of up to 2", for flow/return temperature measurement in hydronic systems		-80... +270 °F	Class 2	5 s	Fixed cable	0600 4593
Spare meas. head for pipe wrap probe		-80... +270 °F	Class 2	5 s		0602 0092
Pt100 probes						
Velcro probe for pipes with diameter of max. 4"		-60... +300 °F	Class B	40 s	Fixed cable	0628 0019

Immers./penetr. probes	Illustration	Meas. range	Accuracy	sec	Conn.	Part no.
type k t/c probes						
Fast response immersion/penetration probe		-330... +750 °F	Class 1	3 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 0293 0614 0293 *
Fast quick-action immersion/penetration probe for liquids		-330... +750 °F	Class 1	1 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 0493 0614 0493 *
Fast quick-action immersion/penetration probe for high temperatures		-330... +2000 °F	Class 1	1 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 0593 0614 0593 *
Fast quick-action immersion/penetration probe for measurements in gases and liquids with a low-mass tip		-330... +1100 °F	Class 1	1 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 9794 0614 9794 *
Stainless steel immersion/penetration probe, waterproof and heat proof, (ideal for food industry)		-330... +750 °F	Class 1	3 s	Fixed cable	0600 2593
Smelting probe for measurements in non-ferrous melting baths, with exchangeable measuring tips		-330... +2300 °F	Class 1	60 s	Fixed cable	0600 5993
Spare measuring tip for smelting probe		-330... +2300 °F	Class 1	60 s		0363 1712
RTD probes						
Standard immersion/penetration probe		-330... +750 °F	Class A	20 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 0273
Standard immersion/penetration probe		-330... +1100 °F	Class A	20 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0604 0274
NEW Highly accurate immersion/penetration probe incl. certificate		-150... +750 °F	±0.05°C (+0.01...+100°C) ±(0.05°C ±0.05% of mv) (-40...0°C) ±0.05°C ±0.05%of mv) (±100.01...+300°C)	30 s	Plug-in head, connection cable 0410 0143 or 0430 0145 required	0614 0240 *
Highly accurate immersion/penetration probe		-150... +750 °F	1/10 Class B (0 to 212°F) 1/5 Class B (rem. range) to EN 60751	30 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0628 0015 *
Flexible precision immersion probe, cable heat-proof up to +500°F		-150... +500 °F	1/10 Class B (0 to 212°F) 1/5 Class B (rem. range) to EN 60751	80 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0628 0016 *
Robust immersion/penetration probe with sharpened measuring tip, waterproof and oven-proof		-330... +750 °F	Class A	30 s	Fixed cable	0604 2573

Plug-in measuring tips	Illustration	Meas. range	Accuracy	sec	Conn.	Part no.
Plug-in measuring tip, 30" long, flexible, for high temperatures, outer casing: stainless steel 1.4541		-330... +1650 °F	Class 1	4 s	Please order handle with Part no. 0600 5593	0600 5393
Plug-in measuring tip, 47" long, flexible, for high temperatures, outer casing: stainless steel 1.4541		-330... +1650 °F	Class 1	4 s	Please order handle with Part no. 0600 5593	0600 5493
Plug-in measuring tip, 22" long, flexible, for high temperatures, outer casing: Inconel 2.4816		-330... +2000 °F	Class 1	4 s	Please order handle with Part no. 0600 5593	0600 5793
Plug-in measuring tip, 40" long, flexible, for high temperatures, outer casing: Inconel 2.4816		-330... +2000 °F	Class 1	4 s	Please order handle with Part no. 0600 5593	0600 5893
Handle for plug-in measuring tip						0600 5593

with EEPROM: Precision adjustment for each probe at a measuring point; measuring range limits are saved in probe; t95 extrapolation; surface allowance in surface probe can be adapted to measuring task

Other temperature probes	Illustration		Meas. range	Accuracy	Conn.	Part no.
Globe thermometer to measure radiant heat	 dia.: 6"	Accuracy corresponds to ISO 7243, ISO 7726, DIN EN 27726, DIN 33403 requirements	32... +250 °F	±0.9 °F (32... +122 °F) ±1.8 °F (+122... +250 °F)	Fixed cable	0554 0670

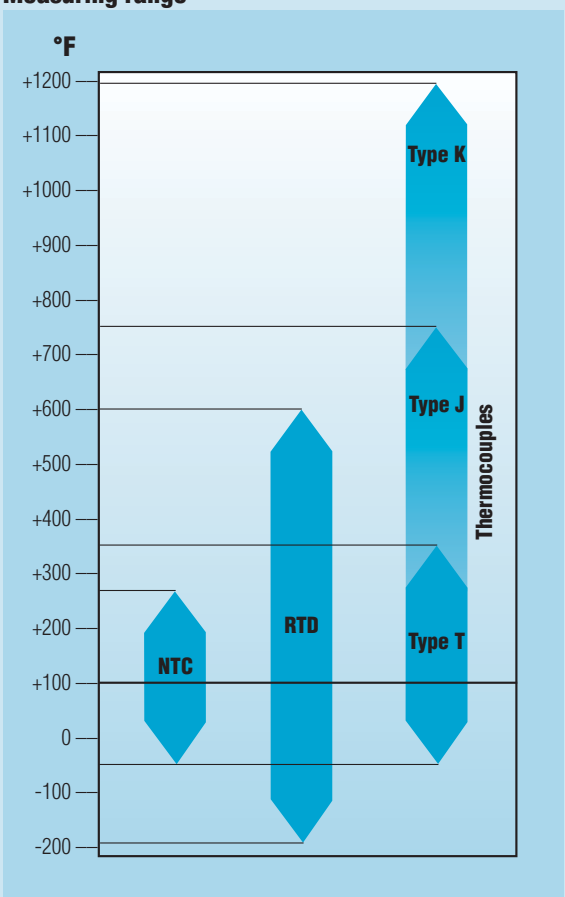
More probes	Illustration	Meas. range	Accuracy	Conn.	Part no.
CO probe to measure CO level in ambient air	 7.5" dia.: 98"	0... +500 ppm CO	±5% of mv (+100.1... +500 ppm CO) ±5 ppm CO (0... +100 ppm CO)	Fixed cable	0632 1247
CO2 probe measures indoor air quality and monitors the workplace. With plug-in head, connection cable 0430 0143 or 0430 0145 required		0... +1 Vol. % CO2 0... +10000 ppm CO2	±(50 ppm CO2 ±2% of mv) (0... +5000 ppm CO2) ±(100 ppm CO2 ±3% of mv) (+5001... +10000 ppm CO2)	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0632 1240
Mechanical rpm probe with plug-in head Included 2 probe tips 1/4" and 1/2" 1 hollow cone 1/4" 1 surface speed disc 3/4" to measure rotational speed: rpm = rotational speed in fpm		+20... +20000 rpm	± 1 digit	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0640 0340
Current/voltage cable (±1 V, ±10 V, 20 mA)		0... +1000 mV 0... +10 V 0... +20 mA	±1 mV (0... +1000 mV) ±0.01 V (0... +10 V) ±0.04 mA (0... +20 mA)		0554 0007
NEW 4 to 20 mA-interface for the connection of and intermittent supply to transmitters (scalin via hand-held instrument), in robust metal housing with impact protection, incl. magnet for fast attachment		0/4 to 20 mA	±0.04 mA	Plug-in head connection cable 0430 0143 or 0430 0145 required	0554 0528

Accessories for temperature probes	Part no.
Cable, 5 ft. long, connects probe with plug-in head to meas. instrument PUR coating material	0430 0143
Cable, 16 ft. long, connects probe with plug-in head to measuring instrument PUR coating material	0430 0145
Extension cable, 16 ft. long, between plug-in head cable and instrument PUR coating material	0409 0063

Accessories for temperature probes	Part no.
Telescopic handle, max. 3 ft., for probe with plug-in head Cable: 8 ft. long, PUR coating material	0430 0144
Glass pipe for immersion/penetration probe to protect from corrosive agents For probes with Part nos. 0604 0273 and 0628 0015	0554 7072

Selecting the right temperature sensor

Measuring range



Accuracy

Select the sensor with the accuracy required for your application from the diagram or table.

Accuracy data

Sensor	Temp. range	Class	Maximum tolerances	
			Fixed value	Referred to temperature
Thermocouple	-40...+2000 °F	2	±4.5 °F	±0,0075 x ltl
Type K	-40...+1830 °F	1	±2.7 °F	±0,004 x ltl
Type T	-40...+660 °F	1	±0.9 °F	±0,001 x ltl
Type J	-40...+1400 °F	1	±2.7 °F	±0,004 x ltl
Pt100	-100...+400 °F	B	± (0,3 + 0,005 • ltl)	
	-330...+1112 °F	A	± (0,15 + 0,002 • ltl)	
NTC (Standard)	-60...-13 °F -4...+165 °F +165...+300 °F	–	±0.7 °F ±0.4 °F ±0.5 % of reading	
NTC (High temp.)	-13...-4 °F -4...32 °F +32...+165 °F +170...+525 °F	– – °F	±1.8 °F ±1 °F ±0.9 °F ±0.9 °F ±0.5 % of reading	

t=Measuring temperature

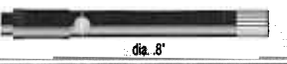
Data for thermocouples to EN 60584-1 (formerly IEC 584-1). Two values are given. One fixed value in °F and a formula.

The larger value always applies. Data for Pt100 to EN 60751 (formerly IEC 751).

There is no standardization for NTC sensors.

In the case thermocouples, Accuracy Class 1 applies to the measurement range -40 to 1832 °F.
In the range -330 to -40 °F Class 3 applies corresponding to ± 4.5 °F or 0,015 • ltl.

Humidity and pressure probes for testo 650, testo 400

Probes	Illustration	Meas. range		Accuracy	Sec	Conn.	Part no.
Air probes							
Standard indoor air quality probe up to +160°F	 dia. .50"	0... +100 %RH -4... +160 °F	±2 %RH (+2... +98 %RH)	±0.7 °F (-14... +122 °F) ±0.9 °F (-4... 14 °F) ±0.9 °F (+122... +160 °F)	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 (telescopic handle 0430 9715, see Ordering data for Accessories		0... +100 %RH -4... +160 °F	±2 %RH (+2... +98 %RH)	±0.7 °F (-14... +122 °F) ±0.9 °F (-4... 14 °F) ±0.9 °F (+122... +160 °F)	12 s	Fixed cable	
This humidity probe incl. 4 attachable protection caps for ambient air measurements, measurements in exhaust air ducts and equilibrium moisture measurements	 10" dia. .16	0... +100 %RH -4... +160 °F	±2 %RH (+2... +98 %RH)	±0.7 °F (-14... +122 °F) ±0.9 °F (-4... 14 °F) ±0.9 °F (+122... +160 °F)	15 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 2130
Highly accurate reference humidity/temp. probe Calibration certificate included	 dia. .8"	0... +100 %RH -4... +160 °F	±1 %RH (+10... +90 %RH)* ±2 %RH (0... +9.9 %RH) ±2 %RH (+90.1... +100 %RH)	±0.7 °F (-14... +122 °F) ±0.9 °F (-4... 14 °F) ±0.9 °F (+122... +160 °F)	12 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 974
Humidity/temperature probe	 dia. .8"	0... +100 %RH -4... +160 °F	±2 %RH (+2... +98 %RH)	±0.7 °F (+32... +122 °F) ±0.9 °F (-20... 32 °F) ±0.9 °F (+122... +140 °F)		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 -20... +120 °F tpd		±1.6 °F tpd (+32... +122 °F tpd) ±1.8 °F tpd (-23... 32 °F tpd) ±3.6 °F tpd (14... 23 °F tpd) ±5.4 °F tpd (-4... 14 °F tpd) ±7.2 °F tpd (-22... -4 °F 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°F tpd		0... +100 %RH -80... +120 °F tpd		±1.6 °F tpd (23... +120 °F tpd) ±1.8 °F tpd (14... 10 °F tpd) ±3.6 °F td (-4... 14 °F tpd) ±5.4 °F tpd (-22... -4 °F tpd) ±7.2 °F tpd (-40... -22 °F tpd)	300 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 984
NEW High humidity level probe heated sensor element no condensation on sensor.		0... +100 %RH -110... +250 °F	0...+100%RH -4...+185°F	±2.5%RH (-0... +100% RH) ±0.7 °F (-13... 120 °F) ±0.9 °F (-13... -13 °F) ±0.9 °F (+120... +185 °F)	30 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0628 0014
Rugged high temperature/humidity probe up to +360°F	 dia.	0... +100 %RH -4... +360 °F	±2 %RH (+2... +98 %RH)	±0.7 °F (+32... +120 °F) ±0.9 °F (-4... 32 °F) ±0.9 °F (+120... +360 °F)	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	 60° 4" dia. .5"	0... +100 %RH -4... +360 °F	±2 %RH (+2... +98 %RH)	±0.7 °F (+32... +120 °F) ±0.9 °F (-4... 32°F) ±0.9 °F (+120... +360 °F)	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 sensor, cable length 60" probe tip 2" x 0.75" x 0.3"		0... +100 %RH -4... +250 °F	±2 %RH (+2... +98 %RH)	±0.7 °F (14... +120 °F) ±0.9 °F (-4... 14 °F) ±0.9 °F (+120... +250 °F)	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	 dia. 0.72"	0... +100 %RH -4... +160 °F	±2 %RH (+2... +98 %RH)	±0.7 °F (14... +120 °F) ±0.9 °F (-4... 14 °F) ±0.9 °F (+120... +160 °F)	12 s	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0636 0340
Rugged humidity probe for high temperature applications up to 250°F		0... +100 %RH -4... +250 °F	±2 %RH (+2... +98 %RH)	±0.7 °F (14... +120 °F) ±0.9 °F (-4... 14 °F) ±0.9°F (120... +250°F)	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							
Water Activity Set: pressure-tight precision humidity probe with certificate, measurement chamber and 5 sample bowls (plastic)		0... +1 aW 0... +100 %RH	±0.01 aW (+0.1...+0.9 aW) ±0.02 aW (+0.9... +1 aW)	±0.7 °F (14... +120 °F) ±0.9 °F (-4... 14 °F) ±0.9 °F (+120... +160 °F	Reproducibility of aw value ±0.003		0628 0024

Description	Illustration	Probe type	Meas. range		Accuracy	Conn.	Part no.
NEW Precision pressure probe in metal housing with magnet for fast attachment		Differential pressure probe	0 to +40" H_2O		±(0.12" H_2O Pa ±0.5% of mv) (0 to +40" H_2O)	Plug-in head. connection cable 0430 0143 or 0430 0145 required	0638 1347
NEW Precision pressure probe, in metal housing with magnet for fast attachment		Differential pressure probe	0 to +4" H_2O		±0.012" H_2O hPa (0 to +4" H_2O)	Plug-in head. connection cable 0430 0143 or 0430 0145 required	0638 144
NEW Precision pressure probe, in metal housing with magnet for fast attachment		Differential pressure probe	0 to +40" H_2O		±0.5% of mv (+8 to 40" H_2O) ±0.04" H_2O (0 to 8" H_2O)	Plug-in head. (connection cable 0430 0143 or 0430 0145 required	0638 154
NEW Precision pressure probe, in metal housing with quick-closing coupling magnet for fast attachment		Differential pressure probe	0 to +400" H_2O		±0.04" H_2O (0 to 80" H_2O) (80 to 400" H_2O)	Plug-in head. connection cable 0430 0143 or 0430 0145 required	0638 1647
NEW Precision pressure probe, in metal housing with quick-closing coupling magnet for fast attachment		Differential pressure probe	0 to +800" H_2O		±0.8" H_2O (0 to 160" H_2O) (160 to 800" H_2O)	Plug-in head. (connection cable 0430 0143 or 0430 0145 required	0638 1747
NEW Precision pressure probe, in metal housing with quick-closing coupling magnet for fast attachment		Absolute pressure probe	0 to +800" H_2O		±2" H_2O (0 to 800" H_2O)	Plug-in head. (connection cable 0430 0143 or 0430 0145 required	0638 184
Low pressure probe, refrigerant-proof stainless steel, without cable		Screw-in thread 7/16" UNF	Low pressure probe	-15 to150 psi	±1% of f.v. (-15 to 150psi Overload -480 psi (-15 to 150psi))	Plug-in head, connection cable 0409 0202 required	0638 1741
High pressure probe, refrigerant-proof stainless steel, without cable		Screw-in thread 7/16" UNF	High pressure probe	0 to 450 psi	±1% of f.v. (0 to 450 psi) Overload 1000 psi (0 to 450 psi)	Plug-in head, connection cable 0409 0202 required	0638 1841
High press. probe, refrigerant-proof st. steel, up to 600 psi, w/o cable		Screw-in thread 7/16" UNF	High pressure probe	0 to 600 psi	±1% of f.v. (0 to 600 psi) Overload 1000 psi (0 to 600 psi)	Plug-in head, connection cable 0409 0202 required	0638 194

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NEW High pressure probe, refrigerant-proof stainless steel, up to 1450 psi		Screw-in thread 7/16" UNF	Relative pressure probe	-14 to +1450 psi	±1% of f.v. (-14 to +1450 psi) Overload 3626 psi	Plug-in head, connection cable 0409 0202 required	0638 2041
NEW High pressure probe, refrigerant-proof stainless steel, up to 5800 psi		Screw-in thread 7/16" UNF	Relative pressure probe	-14 to +5800 psi	±1% of f.v. (-14 to +5800 psi) Overload 8700 psi	Plug-in head, connection cable 0409 0202 required	0638 2141

Caps for humidity probes (0.5" and 0.8")	Illustration	For humidity probes:	Part no.
Metal protection cage, 0.8" diam. for humidity probes, material: 316 stainless steel. Quick adjustment time, robust and temperature-proof. Used when measuring velocities of less than 2000 fpm	 0.8" diam.	All humidity probes with 0.8" diam.	0554 0665
Metal protection cage, 0.5" diam. for humidity probes, material: 316 stainless steel. Quick adjustment time, robust and temperature-proof. Used when measuring velocities of less than 2000 fpm.	 0.5" diam.	0636 9740, 0636 9715	0554 0755
Wire mesh filter, 0.8" diam., insertable filter for metal protection cage and plastic cap. Material: 316 stainless steel, quick adjustment time, protects from dirt and damage. Applications: meteorology, splashwater, condensation	 0.8" diam.	All humidity probes with 0.8" diam.	0554 0667
Cap with wire mesh filter, 0.5" diam.		All humidity probes with 0.5" diam.	0554 0757
Teflon sintered filter, 0.8" diam., PTFE. Not affected by condensation, water-repellent, resistant to corrosive substances. Applications: compressed air measurements, high humidity range (continuous measurements), high velocities	 0.8" diam.	All humidity probes with 0.8" diam.	0554 0666
Teflon sintered filter, 0.5" diam., PTFE. Not affected by condensation, water-repellent, resistant to corrosive substances. Applications: compressed air measurements, high humidity range (continuous measurements), high velocities	0.5" diam.	0636 9769, 0636 9740, 0636 9715	0554 0756
Stainless steel sintered cap, 0.8" diam., made of stainless steel V2A. Highly rugged, suitable for penetration, clean with compressed air, mechanical protection of sensor. Applications: high mechanical loads, high velocity speeds.	 0.8" diam.	All humidity probes 0.8" diam.	0554 0640
Stainless steel (V2A) sintered cap, 0.5" diameter., Highly rugged, suitable for penetration, should be cleaned with compressed air, mechanical protection of sensor. Applications" high mechanical loads, high velocity speeds. Teflon cap, a 5mm, attachable, PTFE material, (Soft), Applications: dust protection, high humidity level measurements, high velocities	 0.5" diam.	0636 9740, 0636 9715	0554 0647

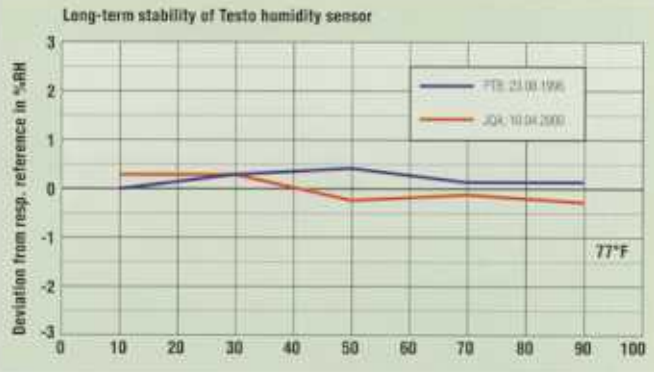
Accessories for humidity probes/sensors	Part no.
Probe connection cable - 5 ft PUR coating material	0430 0143
Probe connection cable - 16 ft. PUR coating material	0430 0145
16 ft. probe extension cable PUR coating material	0409 0063
Telescopic handle, max. 3 ft., for probe with plug-in head Cable: 8 ft. long, PUR coating material	0430 0144
Telescopic handle, 13" to 31" long	0430 9715
Adapter for surface humidity measuring on 0.5" diameter humidity probes to locate damp spots on walls	0628 0012
Cap for bore holes, for humidity probe with 0.5" diameter Measures equilibrium moisture in bore holes	0554 2140
Humidity Calibration Kit (11.3 % & 75.3 %RH) inc. adapter for probes	0554 0660
33% RH salt solution for calibration and/or storage of humidity probes	0554 0635

Accessories for pressure probes	Part no.
Connection cable 8ft. long for pressure probes 0638 1740, 0638 1840, 0638 1940	0409 0202
Magnetic holder for pressure probes For pressure probes 0638 1345/..1445/..1545/..1645	0554 0225
Adapter for pressure probes, 1/2" outer thread, 1/4" inner thread	0699 3127
Connection hose, silicone 16ft. long Max load 280 psi	0554 0440
Connection hose set, 7x9ft., coiled, incl. 1/8" screw connection Pressure-tight up to 290 psi, for probe 0638 1647/1747/1847	0554 0441

Why you should choose humidity meas. instr. from Testo

Inter-lab. tests

Three precision probes were subjected to extensive inter-laboratory tests at the PTB in Berlin, NIST in the USA, the French national institute CETIAT, the Italian institute IMGC, the English national institute NPL, the Spanish national institute INTA, JQA in Japan, KRISS in Korea, NRCCRM in Peking and in Testo´s DKD calibration laboratory. The results confirm an accuracy of ±1 %RH for the probes, as indicated by Testo.

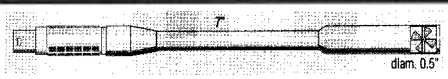
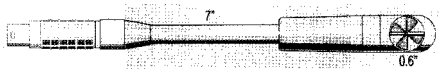
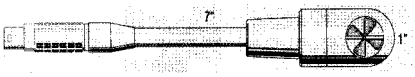


Reference humidity probes for highest precision

- Accuracy ±1 %RH
- 2 year guaranteed long-term stability under normal conditions

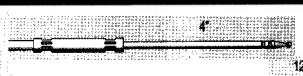
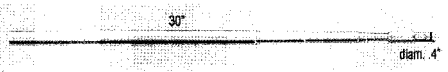
Results of the worldwide inter-laboratory test on 3 precision humidity probes 1996-1997

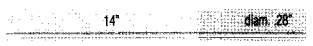
Velocity and pressure probes for testo 400

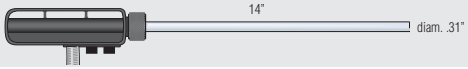
Vane probes	Illustration	Probe type	Meas. range	Accuracy	Part no.
Vane probe, (diam .5"),		Vane	+120 to 4000 fpm Oper. temp. -22... +280 °F	±(40 fpm ±1% of mv) (+120 to 400 fpm)	0635 9443
Vane/temperature probe, (diam. 0.6")		Vane Type K (NiCr-Ni)	+80 to 1200 fpm -22... +280 °F	±(40 fpm ±1% of mv) (+80 to 1200 fpm)	0635 9540
Vane/temperature probe, (diam. 1")		Vane Type K (NiCr-Ni)	+80 to 8000 fpm -22... +280 °F	±(40 fpm to ±1% if mv) (+80 to 8000 fpm)	0635 9640
90° rotating head vane probe (diam. 2.5"),		Vane	+50 to 4000 fpm Oper. temp. 32... +140 °F	±(20 fpm ±1.5% of mv) (+50 to 4000 fpm)	0635 9440
90°rotating head van probe (diam. 4")		Vane	+40 to 3000 fpm Oper. temp. 32... +140 °F	±(20 fpm ±1.5% of mv) (+40 to 3000 fpm)	0635 9340
Vane probe, for stationary assembly, 9ft. cable (PVC)			+80.. +1200 fpm	±(40 fpm ±1% of mv) (+80... +1200 fpm)	0628 0036
High temperature vane probe, (diam. 1"), with handle for continuous measurements up to +670°F		Vane Type K t/c	+120 to 4000 fpm -40... +660 °F	±(60 fpm ±1% of f.v.) (+120 to 4000 fpm)	0635 6045

Accessories/Vane probes	Part no.
Professional telescopic handle for plug-in vane probes, max. 3 ft. long, extension on request	0430 0941
Extension for telescopic handle, 6 ft. long Please also order the 0409 0063 extension cable	0430 0942
Handle for plug-in vane probes	0430 3545

Accessories/Vane probes	Part no.
Swan neck, flexible connection between probe and instrument	0430 0001
Magnetic probe holder for vane probes	0554 0430

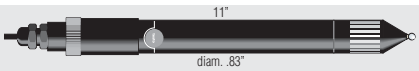
Thermal probes	Illustration	Probe type	Meas. range	Accuracy	Part no.
Hot bulb probe, for measurements in the lower velocity range, 6 ft. cable (PVC)			0 to 2000 fpm -4... +160 °F	±(6 fpm ±5% of mv) (0 to 2000 fpm)	0628 0035
Low cost rugged hot bulb probe, (diam. 12"), for measurements in the lower velocity range, with handle		Hot bulb NTC	0 to 2000 fpm -4.. +160 °F	±(6 fpm ±5% of mv) (0... +2000 fpm)	0635 1549
Rugged hot bulb probe, (diam. 12"), with handle and telescopic handle for measurements in the lower velocity range		Hot bulb NTC	0 to 2000 fpm -4.. +160 °F	±(6 fpm ±5% of mv) (0 to 2000 fpm)	0635 1049
Quick-action hot wire probe, (diam. .4"), with telescopic handle, for measurements in the lower velocity range with direction recognition		Hot wire NTC	0 to 4000 fpm -4.. +160 °F	±(6 fpm ±4% of mv) (0 to 4000 fpm)	0635 1041
NEW Thermal anemometer, w. telescopic handle, measures air flow in lab fume cupboards to DIN EN 14175 (draft)		Hot wire NTC	0 to 1000 fpm 32 to +122 °F	±(6 fpm ±4% of mv) (0 to 1000 fpm)	0635 1047

Pitot tube measurement	Illustration	Probe type	Meas. range	Accuracy		Part no.
Differential pressure probes						
NEW Precision pressure probe, in metal housing with magnet for fast attachment		Differential pressure probe	0 to 40" H_2O	(0.12" H_2O ±0.5% of mv) 0 to 40" H_2O	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0638 1347
NEW Pressure probe, in metal housing with magnet for fast attachment		Differential pressure probe	0 to 40" H_2O	0.12" H_2O (0 to 4" H_2O)	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0638 1447
NEW Pressure probe, in metal housing with magnet for fast attachment		Differential pressure probe	0 to 40" H_2O	±0.5% of mv (+8 to +40" H_2O) ±0.04" H_2O (0 to 8" H_2O)	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0638 1547
Pitot tubes						
Pitot tube, 12" long, stainless steel, measures velocity in connection with pressure probes 0638 1345/..1445/..1545				Oper. temp. 32 to +1100 °F		0635 2245
Pitot tube, 14" long, stainless steel, measures velocity flow in connection with pressure probes 0638 1345/..1445/..1545				Oper. temp. 32 to +1100 °F		0635 2145
Pitot tube, 20" long, stainless steel, measures velocity in connection with pressure probes 0638 1345/..1445/..1545				Oper. temp. 32 to +1100 °F		0635 2045
Pitot tube, 40" long, stainless steel, measures velocity in connection with pressure probes 0638 1345/..1445/..1545				Oper. temp. 32 to +1100 °F		0635 2345

Pitot tube measurement	Illustration	Probe type	Meas. range	Accuracy	Part no.
Straight Pitot tubes					
Pitot tube, stainless steel, 14" long, measures velocity with temperature, for pressure probes 0638 1345/..1445/..1545		Type K (t/c)	-40... +1100 °F		0635 2040
Pitot tube, stainless steel, 20" long, measures velocity with temperature, for pressure probes 0638 1345/..1445/..1545		Type K (t/c)	-40... +1100 °F		0635 2140
Pitot tube, stainless steel, 40" long, measures velocity with temperature, for pressure probes 0638 1345/..1445/..1545		Type K (t/c)	-40... +1100 °F		0635 2240

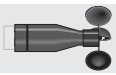
Accessories for pressure probes	Part no.
Connection hose, silicone, 16 ft. long Silicone hose connects Pitot tube and pressure probe, 16 ft. long	0554 0440

Accessories for pressure probes	Part no.
Magnetic holder for pressure probes For pressure probes 0638 1345/..1445/..1545/..1645	0554 0225

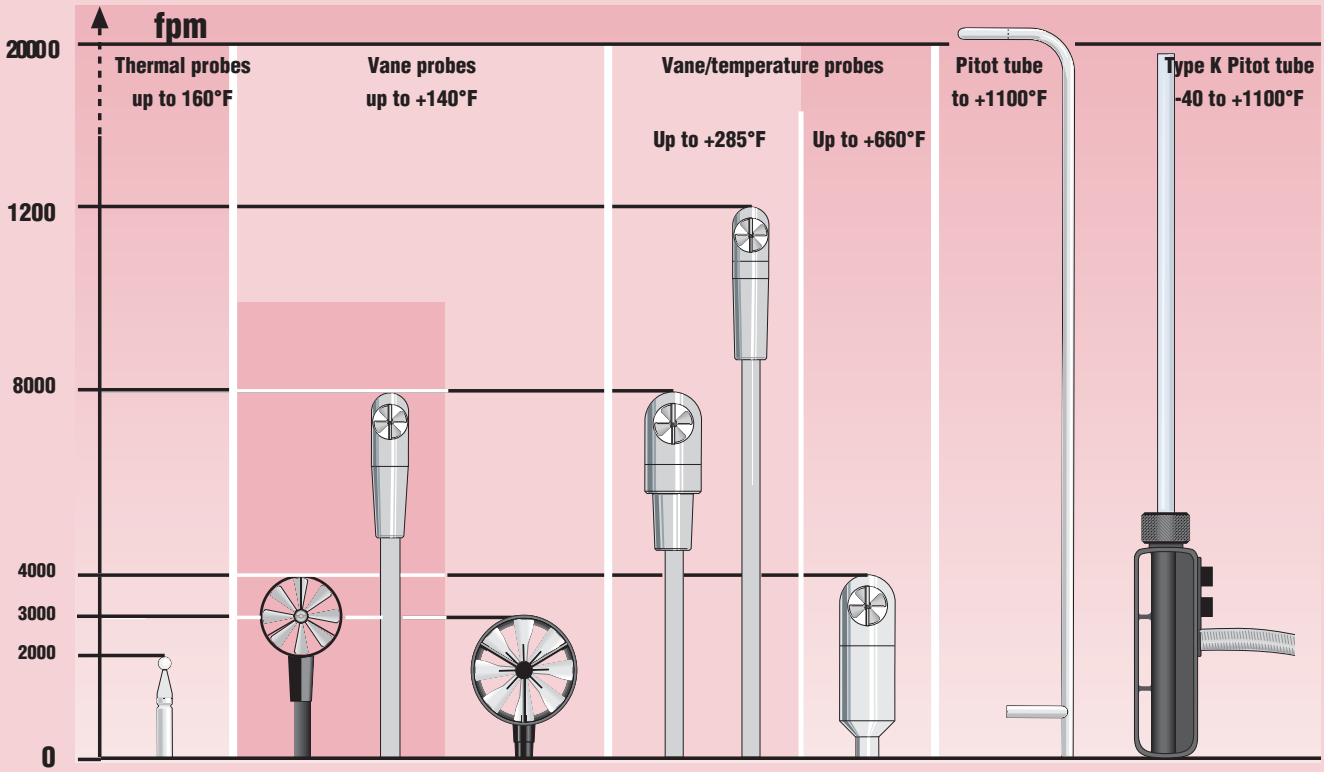
Comfort level measurement	Illustration	Probe type	Meas. range	Accuracy	Part no.
3-function probe for simultaneous measurement of temperature, humidity and velocity. With plug-in head, 0430 0143 connection cable required		Hot bulb Testo humid. sensor, capacitive NTC	0... +2000 fpm 0... +100 %RH -4... +160 °F	±(6fpm ±5% of mv) (0 to 2000 fpm) ±2 %RH (+2... +98 %RH) ±0.9 °F (32 to 120 °F) ±0.7 °F (-4 to 32 °F) ±0.7 °F (+120 to 160 °F)	0635 1540
Comfort level probe for measuring turbulence levels, with telescope and stand. Fulfills DIN 1946 Part 2 or VDI 2080 requirements		Hot wire NTC	0 to 1000 fpm 32 to +120 °F	±(6 fpm ±4% of mv) (0... +1000 fpm) ±0.5 °F (32... +120 °F)	0628 0009
NEW Wet Bulb Globe temperature probe to assess workplaces subjected to heat, in accordance with ISO 7243 or DIN 33403, incl. WBGT case.		Hot wire NTC	0 to 1000 fpm 32 to +120 °F	In accordance with ISo 7243 or DIN 33403	0635 8888

Accessories for 3-function probe	Part no.
Adapter for humidity adjustment of 3-function probe 0635 1540 Order with adjustment set	0554 0661

Accessories for 3-function probe	Part no.
Probe connection cable - 5ft. PUR coating material	0430 0143

Other	Illustration	Probe type	Meas. range	Accuracy	Part no.
Shell anemometer, 10 ft. cable, for wind speed measurements		Vane	140 to 6000 fpm	±(60 fpm ±5% of mv) (+140 to 6000 fpm)	0635 9045

Measuring and application ranges of velocity probes



The air velocity range betwen 0 to 20,000 fpm can be divided into three measuring areas:
- Low-speed velocity 0 to 1000 fpm
- Mid-speed velocity 1000 to 10,000 fpm
- High-speed velocities over 10,000 fpm

Thermal anemometers are best suited for low speed velocities, vane are utilizzed for the mid-speed range, while pitot tubes achieve maximum accuracy in high-speed air velocity. The appropriate choice of the right air velocity probe also depends on the application temperature. Thermal anemometers, for example, have only a very limited operating range. Testo designs and manufacturers air velocity instrumetns utilizing all three measuring technologies. If the measuring technology that best suits your application needs is not on display in this brochure, please call Testo today to obtain additional information.