

Measuring Instruments For Velocity



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Information

Velocity Measurement Engineering

Measurement and application ranges of the velocity probes

Probe selection

The flow measuring range 0 to 100 m/s can be divided into three sections: - Low-speed velocity 0 to 5 m/s

- Mid-speed velocity 5 to 40 m/s
- High-speed velocity 40 to 100 m/s.

Thermal probes are used for accurate measurements in the range 0 to 5 m/s. Vane probes are ideal for velocities ranging from 5 to 40 m/s. The measuring range of the Pitot tube depends on the differential pressure probe used. The new 100 Pa probe can therefore be used for the exact measurement of flow speed from approx. 1 m/s to 12 m/s. The Pitot tube yields optimum results in the higher velocity range. An additional criterion when selecting the right velocity probe is the temperature. Thermal sensors can normally be used at up to approx. +70 °C. Special design vane probes can be used to max. +350 °C. Pitot tubes are used for temperatures above +350 °C.

Thermal probes

Thermal probes

The principle of the thermal probe is based on a heated element from which heat is extracted by the colder impact flow. Temperature is kept constant via a regulating switch. The controlling current is directly proportional to the velocity. When thermal velocity probes are used in turbulent flows, the measured result is influenced by the flows impacting the heated body from all directions. In turbulent flows, a thermal velocity sensor indicates higher measured values than a vane probe. This can be observed especially during measurements in ducts. Depending on the design of the duct, turbulent flows can occur even at low velocities



Thermal hot wire probe for measuring velocity, with direction recognition function

Measurement and application ranges of the velocity probes



Vane probes

Vane probes



Static pressure

The measuring principle of the vane probe is based on the conversion of a rotation into electric signals. The flowing agent makes the vane rotate. An inductive proximity switch "counts" the revolutions of the vane and supplies a pulse sequence which is converted in the measuring instrument and is then indicated as a velocity value. Large diameters (Ø 60 mm, Ø 100 mm) are suitable for the measurement of turbulent flows (e.g. at outlet ducts) at smaller or medium velocities. Small diameters are more suitable for measurements in ducts; in which case the duct cross-section must be 100 times bigger than the probe crosssection being impacted.

The 16mm probe has proven to be very versatile. It is large enough to have good starting qualities and is small enough to withstand velocities of up to 60 m/s.

Pitot tube

Pitot tube

The Pitot tube opening takes on total pressure and conducts it to connection (a) in the pressure probe. The pure static pressure is taken up by a lateral slot and conducted to connection (b). The resulting differential pressure is a dynamic flow-dependent pressure which is then analysed and indicated.

As with thermal probes, the Pitot tube is more likely to react to turbulent flows than a vane probe. Therefore, a free inlet and outlet path must also be ensured during Pitot tube measurements.



Velocity in m/s

- Pitot tube factor
- Air density in kg/m³

Differential pressure in Pascal measured at Pitot tube



Static pressure

Measuring volume flow with a funnel

V	m³/h	= x [m/s]	* 22



22 = Funnel factor



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testo 405-V1 Measure air flow and temperature - Flexibly and easily 1800 testo 405-V1 is the first thermal m/s and m³/h (volume flow calculation 0 to 99,990 m³/h) anemometer in this price range which can measure air velocity, Meas. in ducts and at duct outlets volume flow and temperature. Duct holder and multi-function clip for quick positioning One quick twist and the velocity sensor • Also suitable for larger duct Ø if length is protected by the captive cap is approx. 300 mm User-friendly operation and fast battery change Auto-OFF function Ø 16 mm Pocket-size Velocity measurement stick, with Precision micro NTC (hot wire) channel holder, incl. fixing clip, battery Part no. Easy-to-read display thanks to rotating 0560 4051 probe shaft Ø 12 mm

Technical data				
Meas. range	0 to +10 m/s		Oper. temp.	0 to +50 °C
	-20 to +50 °C		Storage temp.	-20 to +70 °C
	0 to +99990 m³/h		Battery type	3 AAA micro batteries
Accuracy ±(0.1 m/s ±5% of mv) (0 ±1 digit to +2 m/s) ±(0.3 m/s ±5% of mv) (+2.1 to +10 m/s) ±0.5 °C (-20 to +50 °C)		Battery life	20 h	
	to +2 m/s) $\pm (0.3 \text{ m/s} \pm 5\% \text{ of mv})$		Weight	180 g
			Warranty	2 years
	±0.5 °C (-20 to +50 °C)			
Resolution	0.01 m/s 0.1 °C			

Accessories	Part no.
estovent 410, volume flow funnel, Ø 340mm/330 x	330mm, incl. case 0554 0410
estovent 415, volume flow funnel, Ø 210mm/190x	190mm, incl. case 0554 0415
SO calibration certificate/Velocity Two point calibration; calibration points 5m/s and 1	0520 0094 10m/s
SO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration	0520 0004 points 1; 2; 5; 10 m/s

testo 415

Part no.

0560 4150

Compact anemometer

testo 415, the compact anemometer for measuring ambient air flow and temperature.

testo 415, thermal anemometer, with integrated velocity/temperature probe, battery and calibration protocol

- Timed or multi-point mean calculationParallel measurement of flow and
- Switch: Hold/Max/Min; °C/°F; m/s/fpm

temperature

- Compact with built-in probe for ambient velocity measurement
- Practical accessories: TopSafe (indestructible protection sleeve); protects measuring instrument against impact, dirt, bench stand included
- Accessories set for fast attachment of measuring instrument e.g to wall, belt etc., probe holder included
- Battery display
- Auto OFF function (can be switched off)
- With calibration protocol

Technical data		
Meas. range	0 +10 m/s	(
	0 +50 °C	3
Accuracy	±0.05 m/s (0 +10 m/s)	E
±1 digit	±5% of mv (0 +10 m/s)	E
	±0.0 C (0 +00 C)	A
Resolution	0.01 m/s (0 +10 m/s)	[
	0.1 °C (0 +50 °C)	Ν
		٧

Oper. temp.	0 +50 °C
Storage temp.	-20 +70 °C
Battery type	Alkali manganese
Battery life	20 h
Auto Off	10 min
Display	LCD, 2 lines
Material/Housing	ABS
Weight	300 g
Warranty	2 years
Dimensions	190 x 57 x 42 mm



Accessories	Part no.
TopSafe (protection case) with bench stand Protects instrument from impact and dirt	0516 0183
Case for instrument and probes For safe and orderly storage	0516 0182
Accessories set (for instrument without TopSafe) ir carrier loop, probe holder	cludes multi-function clip, 0554 0550
ISO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration	0520 0004 points 1; 2; 5; 10 m/s

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testo

testo 425, the anemometer with separate, securely attached telescopic probe.

The telescopic probe facilitates measurement at inaccessible points e.g. in ceiling and wall outlets, in ventilation ducts or diffusers.



Anemometer with telescopic probe

- Timed or multi-point mean calculation
- Parallel measurement of velocity and temperature
- TopSafe, protects instrument from dirt and impact

Telescopic probe is

securely attached



Accessories		Part no.
Transport and Protection		
TopSafe (protection case) with bench stand Protects instrument from impact and dirt		0516 0183
Case for instrument and probes For safe and orderly storage		0516 0182
Accessories set (for instrument without TopSafe) inclu carrier loop, probe holder	udes multi-function clip,	0554 0550
Accessories set (for instrument with TopSafe) include probe holder	s multi-function clip and	0554 0552
Additional Accessories and Spare Parts	3	
9V rech. battery for instrument Instead of battery		0515 0025
Recharger for 9V rechargeable battery For external recharging of 0515 0025 battery		0554 0025
Calibration Certificates		
ISO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration poi	ints 1; 2; 5; 10 m/s	0520 0004
ISO calibration certificate/Velocity Hot wire, vane anemometer; calibration points 0.5; 0.	8; 1; 1.5 m/s	0520 0024
ISO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration poi	ints 5; 10; 15; 20 m/s	0520 0034
ISO calibration certificate/Velocity All velocity probes, calibration points selectable from	0.3 to 50 m/s at +25°C	0520 0104
DKD calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration poi	ints 2; 5; 10; 15; 20 m/s	0520 0204
DKD calibration certificate/Velocity Hot wire, vane anemometer; calibration points 0.5; 1;	2; 5; 10 m/s	0520 0244
DKD calibration certificate/Velocity Hot wire, vane probes, Pitot tube; calibration points s	electable from 0.1 to 50 m	0520 0214 n/s
DKD calibration certificate/Velocity for vane anemometers: calibration points 2.5: 5: 10 m	n/s	0520 0254

Recommended set

testo 425, Standard Set

testo 425, thermal anemometer with separate velocity/temperature probe incl. telescopic handle, battery and calibration protocol (Part no. 0560 4250)

- Case for instrument and probes (Part no. 0516 0182)
- Accessories set (for instrument without TopSafe) includes multi-function clip, carrier loop, probe holder (Part no. 0554 0550)

Technical data				
Meas. range	0 to +20 m/s	Ope	er. temp.	0 to +50 °C
	-20 to +70 °C	Sto	rage temp.	-20 to +70 °C
Accuracy ±(0.05 m/s ±5% of mv) (0	Bat	tery type	Alkali manganese	
±1 digit	to 20 m/s) ±0.5 °C (0 to +50 °C) ±0.7 °C (remaining range)	Bat	tery life	20 h
		Dim	nensions	190 x 57 x 42 mm
		Wei	ight	300 g
		Dis	play	LCD, 2 lines
		Mat	terial/Housing	ABS
Resolution	0.01 m/s (0 to +10 m/s) 0.1 m/s (+10.1 to +20 m/s) 0.1 °C (-20 to +70 °C)	Wa	rranty	2 years

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Probes	Illustration			Meas. range	Accuracy	Part no.
Affordable vane probe, Ø 60 mm, e.g. for neasurements at duct outlets	_	252 mm	ð 60 mm	+0.25 to +20 m/s Oper. temp. 0 to +60 °C	±(0.1 m/s ±1.5% of mv) (+0.25 to +20 m/s)	0635 9244
/ane probe, Ø 60mm, with telescopic handle max. 754mm, e.g. for measurements at duct outlets	_	754 mm	ð 60 mm	+0.25 to +20 m/s Oper. temp. 0 to +60 °C	±(0.1 m/s ±1.5% of mv) (+0.25 to +20 m/s)	0635 9344
/ane probe, Ø 16 mm, with telescopic handle nax. 720mm, e.g. for measurements in ducts		720 mm	 Ø 16 mm	+0.6 to +40 m/s Oper. temp. 0 to +60 °C	±(0.2 m/s ±1.5% of mv) (+0.6 to +40 m/s)	0635 9544
Affordable hot wire probe for m/s and °C, Ø I2mm, with telescopic handle max. 675 mm	-(675 mm	Ø 12 m	0 to +20 m/s m -20 to +70 °C	±(0.05 m/s ±5% of mv) (+0 to +20 m/s)	0635 1044
Quick action hot wire probe for m/s and °C, Ø 10 mm, with telescopic handle max. 835 mm, for neasurements in the lower velocity range		835 mm	Ø 10 mm	0 to +20 m/s -20 to +70 °C	±(0.03 m/s ±4% of mv) (+0 to +20 m/s)	0635 1043

More probes	Illustration			Meas. range	Accuracy	t ₉₉	Part no.
Waterproof immersion/penetration probe		110 mm	30 mm	-50 to +150 °C	±0.5% of mv (+100 to +150 °C)	10 s	0613 1211
	Fixed cable	Ø 4 mm	Ø 3.2 mm		± 0.2 C (-25 t0 +74.9 C) ± 0.4 °C (remaining range)		
Waterproof surface probe with widened measuring		110 mm		-50 to +150 °C	±0.5% of mv (+100 to +150 °C)	35 s	0613 1911
tip, for flat surfaces	Fixed cable	Ø 4 mm	Ø 6 mm		±0.2 °C (-25 t0 +74.9 °C) ±0.4 °C (remaining range)		
Robust, affordable air probe to check storage		110 mm		-50 to +150 °C	±0.5% of mv (+100 to +150 °C)	60 s	0613 1711
temperatures	Fixed cable	Ø 4 mm		I	±0.2 °C (-25 t0 +74.9 °C) ±0.4 °C (remaining range)		

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testo

Recommended sets, accessories and technical data

Weight

Warranty

Material/Housing

300 g

ABS 2 years

Recommended set
testo 435, Starter Set for measuring velocity in ducts
- testo 435, anemometer, incl. battery and calibration protocol (Part no. 0560 4350)

- Affordable hot wire probe for m/s and °C, Ø 12mm, with telescopic handle max. 675 mm (Part no. 0635 1044)

- Transport case (plastic) for instrument and accessories (Part no. 0516 0184)

testo 435, Starter Set for measuring velocity at outlets

- testo 435, anemometer, incl. battery and calibration protocol (Part no. 0560 4350)

- TopSafe (protection case) with bench stand (Part no. 0516 0183)
- Vane probe, Ø 60mm, with telescopic handle max. 754mm, e.g. for measurements at duct outlets (Part no. 0635 9344)
- Robust, affordable air probe to check storage temperatures (Part no. 0613 1711)
- Transport case (plastic) for instrument and accessories (Part no. 0516 0184)

rechnical dat	a		
Probe type	Hot wire	Vane	NTC
Meas. range	0 to +20 m/s	+0.2 to +40 m/s	-50 to +150 °C
ccuracy 1 digit	See probe data	See probe data	±1% of mv (+100 to +150 °C) ±0.5 °C (-25 to +74.9 °C) ±0.8 °C (remaining range)
lesolution	0.01 m/s (0 to +10 m/s) 0.1 m/s (+10.1 to +20 m/s)	0.01 m/s (0 to +10 m/s) 0.1 m/s (+10.1 to +40 m/s)	0.1 °C
	0.1		
Probe type	Calc. parameter		
Meas. range	0 to +999999 m ³ /h		
ccuracy 1 digit			
Resolution			
Oper. temp.	0 to +50 °C	Battery life	these OOk
Storage temp.	-20 to +70 °C	Vane probe: more the	an 100h
Display	LCD, 2 lines		
Battery type	Alkali manganese		
Battery life	20 h		
Auto Off	10 min		

Accessories		Part no.
Transport and Protection		
TopSafe (protection case) with bench stand Protects instrument from impact and dirt		0516 0183
Accessories set (for instrument without TopSafe) inclue carrier loop, probe holder	des multi-function clip,	0554 0550
Accessories set (for instrument with TopSafe) includes probe holder	multi-function clip and	0554 0552
Case for instrument and probes For safe and orderly storage		0516 0182
Transport case (plastic) for instrument and accessories For safe and orderly storage	5	0516 0184
Additional Accessories and Spare Parts		
9V rech. battery for instrument Instead of battery		0515 0025
Recharger for 9V rechargeable battery For external recharging of 0515 0025 battery		0554 0025
testovent 410, volume flow funnel, Ø 340mm/330 x 33	Omm, incl. case	0554 0410
testovent 415, volume flow funnel, Ø 210mm/190x190	mm, incl. case	0554 0415
Printer and Accessories		
Testo printer with cordless IRDA and infrared interface, and 4 round cell batteries	1 roll of thermal paper	0554 0547
Recharger for printer (with 4 standard rech. batteries) Rechargeable batteries are recharged externally		0554 0110
Spare thermal paper for printer (6 rolls)		0554 0569
Spare thermal paper for printer (6 rolls) Measurement data documentation legible for up to 10	years	0554 0568
Calibration Certificates		
ISO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration point	nts 1; 2; 5; 10 m/s	0520 0004
ISO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration poir	nts 5; 10; 15; 20 m/s	0520 0034
ISO calibration certificate/Velocity All velocity probes, calibration points selectable from ().3 to 50 m/s at +25°C	0520 0104
DKD calibration certificate/Velocity Hot wire, vane anemometer; calibration points 0.5; 1; 2	2; 5; 10 m/s	0520 0244
DKD calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration poir	nts 2; 5; 10; 15; 20 m/s	0520 0204

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testo 521-1 / testo 521-2

testo

The highly accurate differential pressure meter, testo 521, with an internal pressure sensor from 0 to 100 hPa is ideal for Pitot tube measurements in the range 5 to 100 m/s. testo 521 is available in 2 accuracy classes. testo 521-1 with an internal pressure sensor with Class 0.2, testo 521-2 with an internal pressure sensor with Class 0.1.

In the case of velocity speeds in the range from 1 to 12 m/s, you can carry out accurate measurements using the 100 Pa probe which can be attached externally.

The measurement data can be saved according to location and analysed on your PC or printed on site on your Testo printer.

testo 521-1, differential

pressure meter 0 to 100 hPa incl. battery and calibration protocol

1

Part no.

0560 5210

Pitot tube reference instrument

- Temp. compensated differential pressure sensor in instrument
- Additional 2 probe sockets for measuring pressure and temp.
- Direct calculation of velocity speed and velocity flow
- Multi-point and temporal mean calculation
- Density compensation
- Up to two 4 to 20 mA interfaces connectable to hand-held instr.
- 1 analog signal can be evaluated per interface
- Scaling of analog signal in hand-held instrument
- Transmitter can be supplied with power from testo 521, for example
- 4 to 20 mA interface can be connected to testo 521, 526, 400, 650 und 950 hand-held instruments

S	testo 521-2, differential
2	pressure meter 0 to 100 hPa
ncl.	battery and calibration protoco

Part no. 0560 5211

Pressure probes	Illustration	Probe type	Meas. range	Accuracy	Part no.
Precision pressure probe, 100 Pa, in robust metal housing with impact protection, incl. magnet for fast attachment, to measure differential pressure and velocity speeds (in connection with Pitot tube)	Plue-in head connection cable 0430 0143 or 0430 0145 real	Differential pressure probe	0 to +100 Pa	±(0.3 Pa ±0.5% of mv)	0638 1347
Pressure probe, 10 hPa, in robust metal housing with impact protection incl. magnet for fast attachment, to measure differential pressure and velocity speeds (in connection with Pitot tube)	Plug-in head. connection cable 0430 0143 or 0430 0145 req	Differential pressure probe	0 to +10 hPa	±0.03 hPa	0638 1447
Pressure probe, 100 hPa, in robust metal housing with impact protection, incl. magnet for fast attachment, to measure differential pressure and velocity speeds (in connection with Pitot tube)	Plug-in head. connection cable 0430 0143 or 0430 0145 reg	Differential pressure probe uired	0 to +100 hPa	±0.5% of mv (+20 to +100 hPa) ±0.1 hPa (0 to +20 hPa)	0638 1547
Pressure probe, 2000 hPa, measures absolute pressure, in robust metal housing with impact protection, incl. quick- closing coupling (M8 x 0.5), magnet for fast attachment	Plug-in head. connection cable 0430 0143 or 0430 0145 req	Absolute pressure probe uired	0 to +2000 hPa	±5 hPa (0 to +2000 hPa)	0638 1847
Prandtl's Pitot tubes	Illustration		Meas. range		Part no.

Prints

Saves

Display light

Pas

all the second

Pitot tube, 300 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/1445/1545	[300 mm		Ø4mm	0 to +600 °C	0635 2245
Pitot tube, 350 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/1445/1545		350 mm		Ø7mm	Oper. temp. 0 to +600 °C	0635 2145
Pitot tube, 500 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/1445/1545		500 mm		Ø7mm	Oper. temp. 0 to +600 °C	0635 2045
Pitot tube, 1000 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/1445/1545	[1000 mm]	Ø7mm	Oper. temp. 0 to +600 °C	0635 2345

Straight Pitot tubes	Illustration	Pro	be type Meas. ra	nge Part no.	
Pitot tube, stainless steel, 360 mm long, measures flow speed and temperature, for pressure probes 0638 1347/1447/1547	360 mm	Ø 8 mm Type	K (NiCr-Ni) -40 to +600 °	C 0635 2040	
Pitot tube, stainless steel, 500 mm long, measures flow speed and temperature, for pressure probes 0638 1347/1447/1547	500 mm	Ø 8 mm Type	K (NiCr-Ni) -40 to +600 °	C 0635 2140	
Pitot tube, stainless steel, 1000 mm long, measures flow speed and temperature, for pressure probes 0638 1347/1447/1547	1000 m	n Ø 8 mm ^{Type}	K (NiCr-Ni) -40 to +600 °	C 0635 2240	
es@GlobalTestSu	oply.com	www.Test	to-Dire	ct.com 1.888.61	0.76

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Quick-lock coupling

2 line display with text

Zeroing button

Hold/Max/Min/Mean

guide

(for 4x6mm hoses)



testo 521-1 / testo 521-2

testo

Additional probes, accessories and technical data

Prohes	Illustration		N	loop rongo	Acourcov	+	Dort no
Quick-action surface probe with sprung thermocouple strip, measuring range short-term to +500°C		50 mm	Ø 10 mm	-200 to +300 °C	Class 2	<u>199</u> З s	0614 0194
Pipe wrap probe for pipes up to 2" in diameter	Fixed cable			-60 to +130 °C	Class 2	5 s	0600 4593
Super quick-action immersion/penetration probe for measurements in liquids		50 mm	Ø 1.5 mm	-200 to +600 °C	Class 1	1 s	0604 0493
	Plug-in head. connection cable 0430 0	0143 or 0430 0145 req	uired				
Highly accurate air probe for air and gas temperature measurements with bare,	- 0	50 mm		-40 to +130 °C	To UNI curve	60 s	0610 9714
mechanically protected sensor	Fixed cable		Ø 9 mm				

Accessories		Part no.
Transport and Protection		
TopSafe (protection case) Incl. carrier strap, bench stand and magnet. Protects	instrument from dust, imp	0516 0446 act, scratches
Transport case For measuring instrument, probes, Prandtl Pitot tube	, accessories	0516 0527
System case For measuring instrument, probes, straight or Prandt	I Pitot tube, accessories	0516 0526
Additional Accessories and Spare Parts	S	
9V rech. battery for instrument Instead of battery		0515 0025
Plug-in mains unit For mains operation and recharging battery in instru	ment	0554 0088
Cable, 1.5 m long, connects probe with plug-in head PUR coating material	to meas. instrument	0430 0143
Cable, 5 m long, connects probe with plug-in head to PUR coating material	o measuring instrument	0430 0145
Connection hose, silicone, 5m long Max. load 700 hPa (mbar)		0554 0440
Printer and Accessories		
Testo printer with cordless IRDA and infrared interfac and 4 round cell batteries	e, 1 roll of thermal paper	0554 0547
Spare thermal paper for printer (6 rolls) Measurement data documentation legible for up to 1	0 years	0554 0568
Software and Accessories		
ComSoft 3 - Professional with data management Incl. database, analysis and graphics function, data a	nalysis, trend curve (withc	0554 0830 out interface)
RS232 cable Connects instrument to PC (1.8 m) for data transfer		0409 0178
Ethernet adapter, RS 232 - Ethernet incl. software driv Facilitates data communication in network	ver, mains unit	0554 1711
Calibration Certificates		
DKD calibration certificate/Pressure Differential and positive pressure; 11 measuring poir	nts distributed over the inst	0520 0215 trument measuring range
DKD calibration certificate/Pressure Diff. and pos. pressure; 6 meas. points distributed ov	ver meas. range (>0.6% of	0520 0225 fsv)
DKD calibration certificate/Pressure Absolute pressure; 11 measuring points distributed of	over meas. range	0520 0212
ISO calibration certificate/Pressure Differential pressure, accuracy 0.1 to 0.6 (% of fsv)		0520 0025
ISO calibration certificate/Pressure Differential pressure; 5 points distributed over meas.	range	0520 0005
ISO calibration certificate/Pressure Absolute pressure, accuracy 0.1 to 0.6 (% of full-sca	ile value)	0520 0125

Technical data			
	testo 521-1		
Probe type	Piezoresistive pressure sensor	Current/voltage measurement	Current/voltage measurement
Meas. range	0 to 100 hPa	0 to 10 V	0 to 20 mA
Overload	300 hPa		
Static pressure	2000 hPa		
Accuracy ±1 digit	±0.2 % of fsv	±0.01 V	±0.04 mA
Resolution	0.01 hPa	0.01 V	0.01 mA

	testo 521-2		
Probe type	Piezoresistive pressure sensor	Pitot tube measurement	
Vleas. range	0 to 100 hPa	5 to 100 m/s	
Overload	300 hPa		
Static pressure	2000 hPa		
Accuracy ⊧1 digit	±0.1 % of fsv	0.05 m/s at 65 m/s	
Resolution	0.01 hPa		

Common data			
Probe type	Piezoresistive pressure sensor for external pressure probes	NTC	Type K (NiCr-Ni)
Meas. range	0 to 2000 hPa	-40 to +150 °C	-200 to +1370 °C
Accuracy ±1 digit	±0.1 % of mv	±0.2 °C (-10 to +50 °C) ±0.4 °C (remaining range)	\pm 0.4 °C (-100 to +200 °C) \pm 1 °C (remaining range)
Resolution	0.1 Pa (0638 1347) 0.001 hPa (0638 1447) 0.01 hPa (0638 1547) 0.1 hPa (0638 1847)	0.1 °C	0.1 °C
Oper. temp. (compensated)	0 to +50 °C	Power supply	Battery/Rechargeable battery,Mains unit 12 V
Storage temp.	-20 to +70 °C	Battery life	Continuous operation w/
Display	LCD display with symbol, 7 segment display and point matrix		internal pressure sensor: 30 h With rech. battery: 10 h With carbon battery: 18 h
	200, 2 11103	Other features	Mains connection and battery
Battery type	9 V (6LR61)		recharging in instrument
Dimensions	219 x 68 x 50 mm		Automatic recognition of all connected probes
Weight	300 g		oomootou prodoo

Pitot tube measurement

Straight Pitot tubes or classical Prandtl's Pitot tubes can be used, depending on the application. Pitot tubes are available in different lengths and diameters depending on duct diameters and duct openings.

Material/Housing

Warranty

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Straight Pitot tubes

www.Testo-Direct.com

PC

Memory

- Built-in temperature measurement

RS232 interface

25,000

- Higher accuracy on account of Pitot tube factor 0.67

- Higher velocity range in pressure measurement range used

Prandtl's Pitot tube

Application range from 0 to +600 °C

ABS

2 years

1.888.610.7664

You will achieve accurate measurement results in the range from 5 to 100 m/s using an internal pressure sensor with an accuracy of 0.1 % of fsv: Accuracy at 5 m/s: 0.32 m/s Accuracy at 20 m/s: 0.09 m/s

Accuracy at 50 m/s: 0.05 m/s

Accurate measurements from 1 m/s

High accuracy levels are achieved in the velocity range from 1 to 12 m/s when you use the 100 Pa probe which is connected externally. Dependencies on position are completely eliminated thanks to double diaphragm engineering. Changes in position do not influence the measurement result: 0.09 m/s Accuracy at 1 m/s: 0.03 m/s Accuracy at 5-8 m/s:

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Mini wind tunnel

You can draw up your own ISO certificates using the wind tunnel and a certified Testo measuring instrument. All of Testo's velocity probes can be checked and calibrated using the mini wind tunnel (except Ø 100 mm vane probes).

Draw up your own ISO calibration certificates! The Testo mini wind tunnel can be used for regular checks on velocity probes and measuring instruments in your company.

You already have a Testo measuring instrument with velocity probe and calibration certificate and you want to calibrate more probes of the same type using the wind tunnel. Mini wind tunnel incl. power connection cable

Part no. 0554 0450

Technical data

Length: 610 mm Ø meas. tunnel: approx. 100 mm (inside) Velocities: 2.5/5/10 m/s, can be switched Range of application: +10 to +40 °C Probe holder: For all of Testo's velocity probes except vane probes with Ø 100 mm Motor: Direct current fan Power supply: 230 V/50 Hz or 110 V can be switched, built-in IEC socket Warranty: 2 years

- 3 speed levels can be set: 2.5/5/10 m/s
- The readings are traceable to the PTB standard if Testo's DKD certified testo 400 reference instrument is used
- Accuracy of wind tunnel: ±1 % of reading (at least 0.1 m/s) plus calibration uncertainty of the respective reference instrument's certificate



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- Testo mini wind tunnel, affordable set for beginners
- Mini wind tunnel incl. power connection cable (Part no. 0554 0450)
- testo 435, anemometer, incl. battery and calibration protocol (Part no. 0560 4350)
- Vane probe, Ø 16 mm, with telescopic handle max. 720mm, e.g. for measurements in ducts (Part no. 0635 9544)
- DKD calibration certificate/Velocity (Part no. 0520 0254)

Testo mini wind tunnel with reference measuring system

- Mini wind tunnel incl. power connection cable (Part no. 0554 0450)
- testo 400, multi-function measuring instrument, incl. battery, Li cell and calibration protocol (Part no. 0563 4001)
- Vane/temperature probe, Ø 16 mm, attachable to handle or telescopic handle(Part no. 0635 9540)
- Cable, 1.5 m long, for connecting vane probes with plug-in head to the measuring instrument(Part no. 0409 0045)
- DKD calibration certificate/Velocity (Part no. 0520 0254)

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Testo printer

The versatile printer with IRDA and infrared interface saves time since it saves the data to be printed prior to printing. Data is transmitted within 2 seconds. The instrument is then immediately ready to operate.

The readings are stored black on white with date and time.

Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries

Part no. 0554 0547



Accessorie

	i artiio.
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measuren legible for up to 10 years	nent data documentation 0554 0568
Recharger for printer (with 4 standard rech. batterie are recharged externally	es), Rechargeable batteries 0554 0110

Part no

Technical data			
Printer type	Infrared-controlled thermal printer, adjustable	Oper. temp.	0 to +50 °C
		Storage temp.	-40 to +60 °C
	contrast, prints graphics	Power supply	4 round cell batteries, 1.5 V or rechargeable batteries
Reception radius	Max. 2 m	Weight	430 g
Dimensions	147 x 77 x 47 mm		

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Versatile infrared printer



structure - measure - print on-site

Structuring measurement data:

- Readings can be saved at individual locations

 with guarantee of refinding.
- The "tree structure" folders, sub-folders and measurement protocols guarantees an uncomplicated view.
- Practical additional information such as measurement information or required value input can be saved with the location.
- The locations can be selected via barcode labels using the pen.
- . It is easy to draw an effective tour plan using the locations list.



Long-term control made easy:

User-friendly data logging, not only for spot checks

• The beginning of the measurement can be...

- determined manually each time.
- activated if a user defined limit value is exceeded.
- set according to date/time.

• The measurement is completed when...

- the predefined number of readings is reached.
- date/time is reached.
- the memory is full.
- ended manually.
- Non-stop measurement via wrap-around memory...
 - deletes the oldest respective value.
 - is deactivated manually.

Documentation on-site:

- The individual measurement protocol can be either saved or deleted following analysis.
- · The printer immediately supplies the documentation required.
- The attachable comfort printer also offers graphical analysis options.
- Thermal paper for long-term legible measurement data documentation of up to 10 years.





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prepare - analyse - file - document

Easy reading management:

- Preparation of the measurement:
 - The measurement program is determined and loaded into instrument - Tour plan is drawn up based on locations and
 - is loaded into instrument.
- The measuring instrument is downloaded once measuring is complete:
 The saved protocols are conveniently filed via the software using "Drag & Drop" or are analysed in Data.
- The readings are determined using the measuring instrument and can also be displayed online using the software.





Comprehensive analysis, easy filing:

- Analysis:
 - with calculation functions
 - with crosshairs
 - with mean calculation
 - with calculation of standard deviation
 - taking all conventional refrigerants into consideration (refrigeration module, optional)
- Display:
 - as table or as graphic
 - as digit field or as histogram
 - with analog display
 - Measurement channels can be activated or deactivated at the touch of a button
- Documenting:
 - Data is transferred to Excel table using "Copy and Paste".



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sicht Einfügen Format Extras Fenster

🔟 🚊 Standard

Connects instrument to PC (1.8 m) for data transfer



Individual configuration options:

- Your company logo can be included on the printouts.
- Functions can be selected from the function list and the finished profile can be saved.

ComSoft 3 - Professional with data

Incl. database, analysis and graphics

function, data analysis, trend curve

management

(without interface)

0554 0830

Part no.

- The online interface is available for LabVIEW software.
- Menu can be individually tailored to your needs.

ComSoft	3 -	Professional	for:

- Data loggers from the testo 175, testo 177 and testostor 171 series
- testo 945, testo 645, testo 445 and testo 545 monitoring instruments
- testo 950, testo 650, testo 400 reference measuring instruments (as version also for

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Accessories

RS232 cable

1.888.610.7664

- ? N?

Part no.

0409 0178

Ethernet adapter

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The new Ethernet adapter enables the following:

- On-site measurements, e.g. in production, warehouses, Incoming Goods
- Measuring instrument remains on site, transport not necessary-Data inspection from office or administration
- Centralised filing of measurement data

Ethernet offers:

- Fast transmission of readings
- Use of an existing network without additional cabling
- Long transmission distances
- Identification of measuring instruments in system network

Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit Facilitates data communication in network (not for use in Ex-zone)

Part no. 0554 1711

Access Ethernet with Testo measuring instruments

Long-term monitoring of ambient data

The parameters, temperature and humidity, are measured and saved on site by the datalogger. Using the Ethernet adapter, measurement data stored in the logger can be read out and filed via the PC network. The measurement data is then easily analysed and checked on your PC in the office.

The Ethernet adapter therefore has the following advantages:

- Affordable operation since it is no longer necessary to read out data on site or take the logger to the office
- Fast access times because current measurement data can be accessed at any time.





Multi-point checks on site

Testo's handheld measuring instruments are used in production or in Incoming Goods to take spot checks on site. Using an Ethernet adapter, measurement data can be transmitted immediately to a central office which enables fast reaction times, if further actions are required.

Accessories	Part n	ю.
System accessories: testo 400, testo 445, testo	o 650, testo 950	
ComSoft 3 - Professional with data management, Incl. database graphics function, data analysis, trend curve (without interface)	, analysis and 0554 08	330
RS232 cable, Connects instrument to PC (1.8 m) for data transf	er 0409 0	178

lechnical data			
Dimensions	45 x 48 x 14 mm	Management and	Internet browser e.g. from
Oper. temp.	+0 to +70 °C	software	Netscape or Microsoft
Software	Microsoft Windows 2000 / NT 4.0 / ME / 98 / 95	configuration	leinet
Power supply	Mains unit, 5 Volt app. 230 mA	Interface	Serial interface on computer board with
Humidity class	F to DIN 40040		terminal program
EMC	Radio interference and interference resistance		Provision of a local virtua COM port (Windows
Interface	25 pin RS 232 connection with adapter 25/9pin		systems)
Logs	TCP/IP, LPR, Telnet, SNMP, DHCP DDNS, ARP, BOOTP, ICMP		

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Practical accessories and technical data

Accessories		Part no.
Transport and Protection		
Transport case (plastic) for measuring instrument, probe Larger version, for safe and clear storage	es and accessories	0516 0445
System case (plastic) for measuring instrument, probes Probes in lid make it easy to find parts in case	and accessories	0516 0400
System case (aluminium) for measuring instrument, pro Probes in lid make it easy to find parts in case	bes and accessories	0516 0410
Additional Accessories and Spare Parts		
9V rech. battery for instrument Instead of battery		0515 0025
Plug-in mains unit For mains operation and recharging battery in instrume	nt	0554 0088
Cable, 1.5 m long, connects probe with plug-in head to PUR coating material	meas. instrument	0430 0143
Cable, 5 m long, connects probe with plug-in head to m PUR coating material	easuring instrument	0430 0145
Extension cable, 5 m long, between plug-in head cable a PUR coating material	and instrument	0409 0063
Printer and Accessories		
Testo printer with cordless IRDA and infrared interface, and 4 round cell batteries	1 roll of thermal paper	0554 0547
Fast testo 575 printer, incl. 1 roll of thermal paper and b Infrared thermal line printer with graphics function	atteries	0554 1775
Recharger for printer (with 4 standard rech. batteries) Rechargeable batteries are recharged externally		0554 0110
Spare thermal paper for printer (6 rolls)		0554 0569
Spare thermal paper for printer (6 rolls) Measurement data documentation legible for up to 10 ye	ears	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (applied directly	(6 rolls), can be	0554 0561
Software and Accessories		
ComSoft 3 - Professional with data management Incl. database, analysis and graphics function, data anal	ysis, trend curve (with	0554 0830 out interface)
RS232 cable Connects instrument to PC (1.8 m) for data transfer		0409 0178
Ethernet adapter, RS 232 - Ethernet incl. software driver, Facilitates data communication in network	mains unit	0554 1711
Calibration Certificates		
ISO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration point	s 1; 2; 5; 10 m/s	0520 0004
ISO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration point	s 5; 10; 15; 20 m/s	0520 0034
DKD calibration certificate/Velocity Hot wire, vane anemometer; calibration points 0.5; 1; 2;	5; 10 m/s	0520 0244
DKD calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration point	s 2; 5; 10; 15; 20 m/s	0520 0204

Technical data				
Probe type	Type K (NiCr-Ni)	Type J (Fe-CuNi)	NTC	
Meas range	-200 to +1370 °C	-200 to +1000 °C	-50 to +150 °C	
Accuracy	±0.5% of mv (-200 to -60 °C) ±0.5% of mv (+60 to +1370 °C)	±0.5% of mv (-200 to -60 °C) ±0.5% of mv (+60 to +1000	±0.5% of mv (+100 to +150 °C)	
±1 uigit	±0.3 °C (-60 to +60 °C)	°C) ±0.3 °C (-60 to +60 °C)	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (-50 to -25.1 °C) ±0.4 °C (+75 to +99.9 °C)	
Resolution	0.1 °C (-200 to +1370 °C)	0.1 °C (-200 to +1000 °C)	0.1 °C (-50 to +150 °C)	
Probe type	Testo humid. sensor, cap.	Vane	Thermal	
Meas. range	0 to +100 %RH	0 to +60 m/s	0 to +20 m/s	
Accuracy ±1 digit	See probe data	See probe data	See probe data	
Resolution	0.1 %RH (0 to +100 %RH)	0.01 m/s (0 to +60 m/s)	0.01 m/s (0 to +10 m/s) 0.1 m/s (+10.1 to +20 m/s)	
D	Brasours	000 probe	000 arehe	
Probe type	Pressure	GUZ probe	CO2 probe	
Meas. range	See pressure probes	0 to +1 Vol. % CO ₂	0 to +10000 ppm CO ₂	
Accuracy ±1 digit	±0.1% of mv	See probe data	$\begin{array}{l} \pm(100 \text{ ppm } \text{CO}_2 \pm 3\% \text{ of mv}) \\ (\pm 5000 \text{ to } \pm 10000 \text{ ppm } \text{CO}_2) \\ \pm(500 \text{ ppm } \text{CO}_2 \pm 2\% \text{ of mv}) \\ (0 \text{ to } \pm 5000 \text{ ppm } \text{CO}_2) \end{array}$	
Resolution	0.001 hPa (Sonde 0638 1345) 0.001 hPa (Sonde 0638 1445) 0.01 hPa (Sonde 0638 1545) 1 hPa (Sonde 0638 1645)	0 Vol. % CO ₂ (0 to +1 Vol. % CO ₂)	1 ppm CO ₂ (0 to +10000 ppm CO ₂)	
Probe type	CO probe			
Meas. range	0 to +500 ppm CO			
Accuracy ±1 digit	±5% of mv (+100 to +500 ppm CO) ±5 ppm CO (0 to +100 ppm CO)			
Resolution	1 ppm CO (0 to +500 ppm CO)			
Oper. temp.	0 to +50 °C	Battery life: 6-45 h (de	pending on probe)	
Storage temp.	-20 to +70 °C	Calculated humidity of	recrit. III IIISU. arameters: td. a/m3. a/ka	
Display	LCD, 4 lines	pressure-compensated	arameters. tu, y/ms, y/κg I. J/α	
Battery type	9V block battery	Calculated volume flow	v: m3/h (e.g. 0 to 99999	
Battery life	45 h	m3/h), m3/min, m3/s,	I/s, cfm	
PC	RS232 interface	Calculated velocity val	ues (density-	
Weight	255 g	compensated): 0 to 10	u m/s; u to 99999 m3/h	
Material/Housing	ABS	180°C: See Probes for	i. weasuring range -50 to	
Warranty	2 years	Accuracy of Type K. J:	Additional error via	
Memory	3000	operation temperature	0.2 °C (adjustment point)	
Dimensions	215 x 68 x 47 mm			

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Suitable probes at a glance

Probes	Illustration	Probe type	Meas. range	Accuracy	Part no.
Vane probe, Ø 12 mm, can be attached to handle or telescopic handle	180 mm Ø 12 mi	Vane Th	+0.6 to +20 m/s Oper. temp. -30 to +140 °C	±(0.2 m/s ±1% of mv) (+0.6 to +20 m/s)	0635 9443
Vane/temperature probe, \emptyset 16 mm, attachable to handle or telescopic handle	180 mm Ø 16 mi	Vane Type K (NiCr-Ni)	+0.4 to +60 m/s -30 to +140 °C	±(0.2 m/s ±1% of mv) (+0.4 to +60 m/s)	0635 9540
Vane/temperature probe, Ø 25 mm, can be attached to handle or telescopic handle	180 mm	Vane Type K (NiCr-Ni)	+0.4 to +40 m/s -30 to +140 °C	±(0.2 m/s ±1% of mv) (+0.4 to +40 m/s)	0635 9640
Bendable vane probe (can be bent by 90°), Ø 60 mm, attachable to handle or telescopic handle, for measurements on ventilation outlets	Ø 60 mm	Vane	+0.25 to +20 m/s Oper. temp. 0 to +60 °C	±(0.1 m/s ±1.5% of mv) (+0.25 to +20 m/s)	0635 9440
Bendable vane probe (can be bent by 90°), Ø 100 mm, attachable to handle or telescopic handle, for measurements on ventilation outlets	Ø 100 mm	Vane	+0.1 to +15 m/s Oper. temp. 0 to +60 °C	±(0.1 m/s ±1.5% of mv) (+0.1 to +15 m/s)	0635 9340
Affordable, robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, with handle	150 mm Ø 4 mm Ø 3 mm	Hot bulb ntC	0 to +10 m/s -20 to +70 °C	±(0.03 m/s ±5% of mv) (0 to +10 m/s)	0635 1549
Robust hot bulb probe, Ø 3 mm, with handle and telescopic handle for measurements in the lower velocity range	850 mm Ø 3 mm	Hot bulb NTC	0 to +10 m/s -20 to +70 °C	±(0.03 m/s ±5% of mv) (0 to +10 m/s)	0635 1049
Quick-action hot wire probe, Ø 10 mm, with telescopic handle, for measurements in the lower velocity range with direction recognition	760 mm Ø 10 mi	Hot wire NTC m	0 to +20 m/s -20 to +70 °C	±(0.03 m/s ±4% of mv) (0 to +20 m/s)	0635 1041
Vane probe, Ø 16 mm, with telescopic handle, Tmax +60°C	700 mm Ø 16 mi	Vane m	+0.6 to +40 m/s	±(0.2 m/s ±1.5% of mv) (+0.6 to +40 m/s)	0628 0005
Vane probe, \emptyset 60 mm, with telescopic handle, for integrating velocity measurement	Ø 60 m	Vane m	+0.25 to +20 m/s	±(0.1 m/s ±1.5% of mv) (+0.25 to +20 m/s)	0635 9449
High temperature vane probe, Ø 25 mm, with handle for continuous measurements up to +350°C	560 mm Ø 25 mi	Vane Type K (NiCr-Ni) m	+0.6 to +20 m/s -40 to +350 °C	±(0.3 m/s ±1% of fsv) (+0.6 to +20 m/s)	0635 6045
Precision pressure probe, 100 Pa, measures differential pressure and velocities (in connection with Pitot tube)		Differential pressure probe	0 to +100 Pa	±(0.3 Pa ±0.5% of mv) (0 to +100 Pa)	0638 1345
Pressure probe, 10 hPa, measures differential pressure and velocities (in connection with Pitot tube)		Differential pressure probe	0 to +10 hPa	±0.03 hPa (0 to +10 hPa)	0638 1445

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Suitable probes at a glance

Probes	Illustration	Probe type	Meas. range	Accuracy	Part no.
Pressure probe, 100 hPa, measures differential pressure and velocities (in connection with Pitot tube)		Differential pressure probe	0 to +100 hPa	±0.5% of mv (+20 to +100 hPa) ±0.1 hPa (0 to +20 hPa)	0638 1545
Pressure probe, 2000 hPa, measures absolute pressure		Absolute pressure probe	0 to +2000 hPa	±5 hPa (0 to +2000 hPa)	0638 1645
Pitot tube, 500 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/1445/1545	500 mm	Ø 7 mm	Oper. temp. 0 to +600 °C		0635 2045
Pitot tube, 350 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/1445/1545	350 mm	Ø 7 mm	Oper. temp. 0 to +600 °C		0635 2145
Pitot tube, 300 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/1445/1545	300 mm	Ø 4 mm	Oper. temp. 0 to +600 °C		0635 2245
Pitot tube, 1000 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/1445/1545	1000 mm	Ø 7 mm	Oper. temp. 0 to +600 °C		0635 2345
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, cap. 21 mm	0 to +10 m/s 0 to +100 %RH -20 to +70 °C	±(0.03 m/s ±5% of mv)(0 to 10 m/s) ±2 %RH (+2 to +98 %RH) ±0.4 °C (0 to +50 °C)	0635 1540
Comfort level probe for measuring degree of turbulence, with telescopic handle and stand. Fulfills DIN 1946 Part 2 or EN 12 599 requirements	890 mm	Hot wire NTC	0 to +5 m/s 0 to +50 °C	±0.3 °C (ternaming range) ±(0.03 m/s ±4% of mv) (0 to +5 m/s) ±0.3 °C (0 to +50 °C)	0628 0009
CO2 probe measures indoor air quality and monitors the workplace. With plug-in head, connection cable 0430 0143 or 0430 0145 required		CO2 probe	0 to +1 Vol. % CO ₂ 0 to +10000 ppm CO ₂	$\begin{array}{c} \pm (50 \text{ ppm CO}_2 \pm 2\% \text{ of mv}) (0 \text{ to} \\ \pm 5000 \text{ ppm CO}_2) \\ \pm (100 \text{ ppm CO}_2 \pm 3\% \text{ of} \\ \text{mv}) (\pm 5001 \text{ to} \pm 10000 \text{ ppm CO}_2) \end{array}$	0632 1240
Ambient CO probe to measure CO level in ambient air	190 mm	CO probe Ø 25 mm	0 to +500 ppm CO	±5% of mv (+100.1 to +500 ppm CO) ±5 ppm CO (0 to +100 ppm CO)	0632 1247
More probes	Illustration			+	Port no
 Standard ambient air probe up to +70°C 		vieas. range Accuracy to +100 %RH ±2 %RH (+2 to + 20 to +70 °C 20 to +70 °C %RH)	98 ±0.4 °C (-10 to + ±0.5 °C (remaining	*90 50 °C) 12 s ng range)	0636 9740
	Plug-in head. connection cable 0430 0143 or 0430 0145 require	d			
 Duct humidity/temperature probe, can be connected to telescopic handle 	180 mm - Fixed cable Ø 12 mm) to +100 %RH	-98 ±0.4 °C (-10 to + ±0.5 °C (remainin	50 °C) 12 s ng range)	0636 9715
Thin humidity probe incl. 4 attachable protection caps for ambient air measurements, measurements in exhaust air ducts and equilibrium moisture measurements	250 mm 0 Ø 4 mm 9 Plug-in head. connection cable 0430 0143 or 0430 0145 require	to +100 %RH ±2 %RH (+2 to + 20 to +70 °C %RH)	98 ±0.4 °C (-10 to + ±0.5 °C (-20 to - ±0.5 °C (+50.1 to	50 °C) 15 s 10.1 °C) +70 °C)	0636 2130
Highly accurate reference humidity/temp. probe incl. cal. cert.	Pluq-in head. connection cable 0430 0143 or 0430 0145 require	to +100 %RH ±1 %RH (+10 to +9 20 to +70 °C %RH) ±2 %RH (remaining range)	±0.4 °C (-10 to + ±0.5 °C (remaining	50 °C) 12 s ng range)	0636 9741
Flexible humidity probe with mini module for meas. e.g. on material testing rigs, module cable length 1500mm, probe tip 50x19x7mm	Pluc-in head. connection cable 0430 0143 or 0430 0145 require	0 to +100 %RH +2 %RH (+2 to + 20 to +125 °C %RH) ad	.98 ±0.4 °C (-10 to + ±0.5 °C (remainin	50 °C) 20 s ng range)	0628 0013
Sword probe for measuring humidity and temperature in stacked material	320 mm	20 to +100 %RH ±2 %RH (+2 to + 20 to +70 °C %RH)	98 ±0.4 °C (-10 to + ±0.5 °C (-20 to - ±0.5 °C (+50.1 to	50 °C) 12 s 10.1 °C) 9 +70 °C)	0636 0340
High humidity level probe w/ heated sensor element, no humidity on sensor	300 mm Ø 12 mm Plun-in head connection cable 0430 0145 require	20 to +100 %RH ±2.5 %RH (0 to 20 to +85 °C %RH)	+100 ±0.4 °C (-10 to + ±0.5 °C (-20 to - ±0.5 °C (+50.1 to	50 °C) 30 s 10.1 °C)) +85 °C)	0636 2142
 Robust humidity probe e.g. for measuring equilibrium moisture or for measurements in exhaust ducts to +120°C 	300 mm - Ø 12 mm - Ø 12 mm -	to +100 %RH	±0.4 °C (-10 to + ±0.5 °C (remaining	50 °C) 30 s ng range)	0636 2140
Robust high temperature/humidity probe up to +180°C	300 mm	→ to +100 %RH ±2 %RH (+2 to + 20 to +180 °C %RH)	±0.4 °C (+0.1 to ±0.5 °C (remainin	+50 °C) 30 s ng range)	0628 0021
Flexible humidity probe (does not retain shape) for measurements in inaccessible places	Plun-in head connection cable 0400 0400 0400 0400 0400 0400 0400 04	 1 to +100 %RH ±2 %RH (+2 to + 20 to +180 °C %RH) vd	±0.4 °C (+0.1 to ±0.5 °C (-20 to 0 ±0.5 °C (+50.1 to	+50 °C) 30 s °C) +180 °C)	0628 0022
Standard pressure dew point probe for measurements in compressed air systems	Plun_in head connection cable 0420 0448 cr 0420 0445 require		±0.9 °C tpd (+0.1 to ±1 °C tpd (-4.9 to 0 ±2 °C tpd (-9.9 to - ±3 °C tpd (-19.9 to -	+50 °C tpd) 300 °C tpd) S °C tpd) S 10 °C tpd) 0 °C tpd)	0636 9840
 Precision pressure dew point probe for measurements in compressed air systems incl. cert. with test point -40°C tod 	S00 mm	to +100 %RH 60 to +50 °C tpd	±+0.8 °C tpd (-4.9 to ±1.0 °C tpd (-9.9 to -5 ±2 °C tpd (-19.9 to - ±3 °C tpd (-29.9 to - ±3 °C tpd (-29.9 to -	+50 °C tpd) 300 °C tpd) S 10 °C tpd) S 20 °C tpd) 20 °C tpd)	0636 9841
Flexible humidity probe (retains shape) for	450 mm Ø 14 mm C	to +100 %RH +2 %RH (+2 to +	-98 ±0.4 °C (-10 to +	50 °C) 30 s	0628 0014
			+ 1 1 5 -1 1 1-20 TO -	1 0	99 610 76

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Suitable probes at a glance

Probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
 Quick-action surface probe with sprung thermocouple strip, measuring range short-term to +500°C 	150 mm	-200 to +300 °C	Class 2	3 s	0604 0194
Super quick-action immersion/penetration probe for measurements in liquids	150 mm Plug-in head connection cable 0430 0143 or 0430 0145 required	-200 to +600 °C	Class 1	1 s	0604 0493
 Super quick-action immersion/penetration probe for measurements in gases and liquids with a low-mass tip 	150 mm 20 mm Ø 1.4 mm Ø 0.5 mm Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 to +600 °C	Class 1	1 s	0604 9794
Pipe wrap probe for pipes up to 2" in diameter	Fixed cable	-60 to +130 °C	Class 2	5 s	0600 4593
Spare meas. head for pipe wrap probe	35 mm 15 mm	-60 to +130 °C	Class 2	5 s	0602 0092
Globe thermometer to measure radiant heat	Ø 150 mm Accuracy correspo ISO 7243, ISO 772 EN 27726, DIN 33 requirements	nds to 0 to +120 °C 6, DIN 103	±0.5 °C (0 to +49.9 °C) ±1 °C (+50 to +120 °C)		0554 0670

See testo 400 for more probes

Accessories for velocity probes, pressure probes	Part no.
Professional telescopic handle for plug-in vane probes, max. 1 m long, extension on request	0430 0941
Extension for telescopic handle, 2 m long Please also order the 0409 0063 extension cable	0430 0942
Handle for plug-in vane probes	0430 3545
Swan neck, flexible connection between probe and connection part	0430 0001
Extension cable, 5 m long, between plug-in head cable and instrument PUR coating material	0409 0063
Magnetic probe holder for vane probes	0554 0430
Connection hose, silicone, 5m long Max. load 700 hPa (mbar)	0554 0440
Magnetic holder for pressure probes For pressure probes 0638 1345/1445/1545/1645	0554 0225
Cover plugs for test holes (50 off)	0554 4001

Accessories for temperature probes	Part no.
Silicone heat paste (14g), Tmax = +260°C Improves heat transfer in surface probes	0554 0004
Cable, 1.5 m long, connects probe with plug-in head to meas. instrument PUR coating material	0430 0143
Cable, 5 m long, connects probe with plug-in head to measuring instrument PUR coating material	0430 0145
Extension cable, 5 m long, between plug-in head cable and instrument PUR coating material	0409 0063
Telescopic handle, max. 1 m, for probe with plug-in head Cable: 2.5 m long, PUR coating material	0430 0144

Accessories: Humidity, 3-function probe	Part no.
Cable, 1.5 m long, connects probe with plug-in head to meas. instrument PUR coating material	0430 0143
Cable, 5 m long, connects probe with plug-in head to measuring instrument PUR coating material	0430 0145
Extension cable, 5 m long, between plug-in head cable and instrument PUR coating material	0409 0063
Telescopic handle, max. 1 m, for probe with plug-in head Cable: 2.5 m long, PUR coating material	0430 0144
Telescopic handle, 340 - 800mm long	0430 9715
Control and humidity adjustment set 11.3%RH/75.3%RH incl. adapter for humidity probes	0554 0660
Adapter for humidity adjustment of 3-function probe 0635 1540 Order with adjustment set	0554 0661
Control and storage humidity (33%RH) for humidity probes	0554 0636
Metal protection cage, Ø 21 mm for humidity probes For velocities of less than 10 m/s	0554 0665
Metal protection cage, Ø 12 mm for humidity probes For velocities of less than 10 m/s	0554 0755
Wire mesh filter, Ø 21 mm, for metal protection cage and plastic cap Protects from dirt and damage. Applications: meteorology, splashwater, conder	0554 0667 nsation
Cap with wire mesh filter, Ø 12 mm	0554 0757
Teflon sintered filter, Ø 21 mm, for corrosive substances High humidity range (long-term measurements), high velocities	0554 0666
Teflon sintered filter, Ø 12 mm, for corrosive substances High humidity range (long-term measurements), high velocities	0554 0756
Stainless steel sintered cap, Ø 21 mm, can be screwed onto humidity probe Protection in case of high mechanical load and high velocities	0554 0640
Stainless steel sintered cap, Ø 12 mm, is screwed onto humidity probe For measurements at high velocity speeds or in dirt ingressed air	0554 0647
Teflon cap, Ø 5 mm, attachable, PTFE material, (5 off) Dust protection, high humidity measurements, high flow speeds for humidity probe 0636 2130	0554 1031
Teflon sintered filter, Ø 12 mm, for corrosive substances High humidity range (non-stop measurements), high flow speeds	0554 0758

Caps for humidity probes, see page 28

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este

Precision reference class measuring instruments have everything the professional user needs to complete complicated measurement tasks efficiently, accurately and conveniently.

testo 400 includes the parameters temperature, CO2, rpm, current, voltage, relative humidity, pressure, velocity and volume flow.

Intelligent electronics ensure the latest technology is used thanks to software updates. The measuring instrument can always keep up with the measurement tasks at hand thanks to upgrades.

Upgradable and teachable, highly reliable and of the highest quality they are the properties which guarantee that the customer is equipped for the future.

Useful instument functions:

- System accuracy up to 0.05 °C and up to a resolution of 0.001 °C
- All functions of testo 650 and testo 950
- Input of cross-sections to volume flow calculation
- Absolute pressure compensation in thermal probes
- Density calculation for velocity measurement with reference to temperature, humidity and absolute pressure
- Turbulence degree measurement to DIN EN 27726, DIN 1946 Teil 2, ISO

• Assessment of volume flow measurements with calculation of total uncertainty of measurement in accordance with EN 12599 with VAC module (optional)

- The reference measuring instrument for A/C and ventilation systems
 With VAC module for velocity measurement in m/s, m⁹/h duct
 Clear graphics display
 3 user defined function buttons
 Save or print at the touch of a button
- Mains connection/Quick battery recharge
- Attachable printer
- Prints readings on site in the matter of seconds
- Data communication via PC
- Barcode reader

testo 400

calibration protocol

Temperature

Part no.

0563 4001

Humidity, pressure

Can be used for: • Velocity, volume flow

testo 400, multi-function measuring

CO2, rpm and current/voltage

instrument, incl. battery, Li cell and

User friendly operation via cursor

Power connection/quick battery recharge 2 user defined probe sockets

Attachable printer prints

Clear graphics display

3 user-defined function

barcode reader

buttons

a button

Data communication by PC,

Saves or prints at the touch of

Easy operation with cursor

readings on site in seconds

Recommended set

- For fast measurements on VAC systems
 testo 400, multi-function measuring instrument, incl. battery, Li cell and calibration protocol (Part no. 0563 4001)
- Memory upgrade to 500,000 readings (Part no. 0554 9481)
- VAC module upgrade (Part no. 0450 4010)
- ComSoft 3 Professional with data management (Part no. 0554 0830)
- VAC module upgrade, PC software, (for ComSoft 3 software) (Part no. 0554 4030)
- RS232 cable (Part no. 0409 0178)
- Bendable vane probe (can be bent by 90°), Ø 100 mm, attachable to handle or telescopic handle, for measurements on ventilation outlets (Part no. 0635 9340)
- Vane/temperature probe, Ø 16 mm, attachable to handle or telescopic handle (Part no. 0635 9540)
- Professional telescopic handle for plug-in vane probes, max. 1 m long, extension on request (Part no. 0430 0941)
- Attachable printer (securely attached) including 1 roll of thermal paper and batteries (Part no. 0554 0570)
- SoftCase (protects instrument from impact) with carrier strap, magnetic holder and probe holder (Part no. 0516 0401)
- SoftCase for attachable printer (protects printer from dirt/impact) (Part no. 0516 0411)
- System case (aluminium) for measuring instrument, probes and accessories (Part no. 0516 0410)
- We recommend:

DKD calibration certificate/Temperature 0520 0201 El. resistance thermometer, el. thermometer; cal. points selectable from -80 to +1000°C

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Additional recommended sets

0520 0181

Recommended set

The pro set for assessing workplaces subjected to heat

- testo 400, multi-function measuring instrument, incl. battery, Li cell and calibration protocol (Part no. 0563 4001)
- Wet Bulb Globe temperature probe to assess workplaces subjected to heat, in accordance with ISO 7243 or DIN 33403, incl. WBGT case (Part no. 0635 8888)
- Attachable printer (securely attached) including 1 roll of thermal paper and batteries (Part no. 0554 0570)

We recommend:

SO calibration certificate/	Temperature
or air/immersion probes	calibration points -8°C: 0°C: ±40°C

testo 400, the Pro set for comfort level meas. & occupational safety/health

- testo 400, multi-function measuring instrument, incl. battery, Li cell and calibration protocol (Part no. 0563 4001)
- Comfort level probe for measuring degree of turbulence, with telescopic handle and stand. Fulfills DIN 1946 Part 2 or EN 12 599 requirements (Part no. 0628 0009)
- Attachable printer (securely attached) including 1 roll of thermal paper and batteries (Part no. 0554 0570)

We recommend:

CO2 probe measures indoor air quality and monitors the workplace. With plug-in head, connection cable 0430 0143 or 0430 0145 required 0632 1240

Cable, 1.5 m long, connects probe with plug-in head to meas. instrument PUR coating material	0430 0143
Standard ambient air probe up to +70°C Measures all physical parameters in the Mollier diagram	0636 9740
Quick-action surface probe with sprung thermocouple strip, measuring range short-term to +500°C	0604 0194
Cable, 1.5 m long, connects probe with plug-in head to meas. instrument PUR coating material	0430 0143

The Pro Set for clean room systems

- testo 400, multi-function measuring instrument, incl. battery, Li cell and calibration protocol (Part no. 0563 4001)
- Precision pressure probe, 100 Pa, in robust metal housing with impact protection, incl. magnet for fast attachment, to measure differential pressure and velocity speeds (in connection with Pitot tube) (Part no. 0638 1347)
- Precision air probe (Part no. 0628 0017)
- Highly accurate reference humidity/temp. probe incl. cal. cert. (Part no. 0636 9741)
- Cable, 1.5 m long, connects probe with plug-in head to meas. instrument (Part no. 0430 0143)
- Cable, 1.5 m long, connects probe with plug-in head to meas. instrument (Part no. 0430 0143)
- Quick-action hot wire probe, Ø 10 mm, with telescopic handle, for measurements in the lower velocity range with direction recognition (Part no. 0635 1041)
- Bendable vane probe (can be bent by 90°), Ø 100 mm, attachable to handle or telescopic handle, for measurements on ventilation outlets (Part no. 0635 9340)
- Professional telescopic handle for plug-in vane probes, max. 1 m long, extension on request (Part no. 0430 0941)
- Current/voltage cable (±1 V, ±10 V, 20 mA) (Part no. 0554 0007)
- System case (aluminium) for measuring instrument, probes and accessories (Part no. 0516 0410)
- ComSoft 3 Professional with data management (Part no. 0554 0830)
- RS232 cable (Part no. 0409 0178)

We recommend:

DKD calibration certificates for temperature, humidity, velocity, pressure (See Calibration)

Recommended set Laboratory fume cupboard probe

- testo 400, multi-function measuring instrument, incl. battery, Li cell and calibration protocol (Part no. 0563 4001)
- Power unit 230 V/ 8 V/ 1 A, for instrument (European plug) (Part no. 0554 1084)
- Rechargeable battery set for instrument (4 rechargeables 2.4V/700mAh) (Part no. 0554 0196)
 Thermal anemometer, Ø 10 mm, w. telescopic handle, measures air flow in lab fume cupboards to DIN EN 14175 (draft) (Part no. 0635 1047)
- Standard ambient air probe up to +70°C (Part no. 0636 9740)
- Pressure probe, 2000 hPa, measures absolute pressure, in robust metal housing with impact protection, incl. quick-closing coupling (M8 x 0.5), magnet for fast attachment (Part no. 0638 1847)
 Precision pressure probe, 100 Pa, in robust metal housing with impact protection, incl. magnet for fast attachment, to measure differential pressure and velocity speeds (in connection with Pitot tube) (Part no. 0638 1347)
- Cable, 1.5 m long, connects probe with plug-in head to meas. instrument (Part no. 0430 0143)
 Comfort level probe for measuring degree of turbulence, with telescopic handle and stand. Fulfills DIN 1946 Part 2 or EN 12 599 requirements (Part no. 0628 0009)

We recommend:

ComSoft 3 - Professional with data management Incl. database, analysis and graphics function, data analysis, trend curve (with	0554 0830 out interface)
RS232 cable Connects instrument to PC (1.8 m) for data transfer	0409 0178
Attachable printer (securely attached) including 1 roll of thermal paper and batteries	0554 0570
SoftCase (protects instrument from impact) with carrier strap, magnetic holder and probe holder	0516 0401
SoftCase for attachable printer (protects printer from dirt/impact) Protects from impact and falls	0516 0411
System case (aluminium) for measuring instrument, probes and accessories Probes in lid make it easy to find parts in case	0516 0410
DKD calibration certificate/Velocity for laboratory fume cupboard probe	

ISO calibration certificate/Velocity for laboratory fume cupboard probe

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Accessories and Calibration certificates

Accessories	Part no.
Accessories for measuring instrument	
Memory upgrade to 500,000 readings Upgrades memory capacity (by Service)	0554 9481
Rechargeable battery set for instrument (4 rechargeables 2.4V/700mAh) Selected for quick recharging in instrument	0554 0196
Power unit 230 V/ 8 V/ 1 A, for instrument (European plug) For mains operation and battery recharging	0554 1084
Car charging adapter, ready to measure following recharging in car Battery is recharged while travelling in car	0554 0424
Spare Li cell to save RAM data When changing battery or rechargeable battery	0515 0028
Printer and Accessories	
Attachable printer (securely attached) including 1 roll of thermal paper and batteries	0554 0570
Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries	0554 0547
Fast testo 575 printer, incl. 1 roll of thermal paper and batteries Infrared thermal line printer with graphics function	0554 1775
Recharger for printer (with 4 standard rech. batteries) Rechargeable batteries are recharged externally	0554 0110
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls) Measurement data documentation legible for up to 10 years	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly	0554 0561
Softcase for instrument and printer	
SoftCase (protects instrument from impact) with carrier strap, magnetic holder and probe holder	0516 0401
SoftCase for attachable printer (protects printer from dirt/impact) Protects from impact and falls	0516 0411
Barcode and accessories	
Barcode reader to read in measurement locations Quick and accurate allocation of reading to site	0554 0460
Barcode labels, self-adhesive (1200 off) for labelling site with barcode, printing via software	0554 0411
Adhesive pockets (50 off) for printout, paper barcode labels	0554 0116
Software and Accessories	
ComSoft 3 - Professional with data management Incl. database, analysis and graphics function, data analysis, trend curve (with	0554 0830 out interface)
RS232 cable Connects instrument to PC (1.8 m) for data transfer	0409 0178
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit Facilitates data communication in network	0554 1711
Electrical isolation for RS232 (connects measuring instrument to PC)	0554 0006
VAC module	
Memory upgrade to 500,000 readings Upgrades memory capacity (by Service)	0554 9481
VAC module upgrade Volume flow calculation in ducts with error calculation function in instrument	0450 4010
VAC module upgrade, PC software, (for ComSoft 3 software) Printout of standard measurement protocols	0554 4030
Refrigeration module	
"Refrigeration technology" update with saved curves of all usual refrigerants	0554 4035
System case	
Transport case (plastic) for measuring instrument, probes For secure and orderly storage	0516 0300
System case (plastic) for measuring instrument, probes and accessories Probes in lid make it easy to find parts in case	0516 0400
System case (aluminium) for measuring instrument, probes and accessories Probes in lid make it easy to find parts in case	0516 0410

Calibration Certificates	Part no.
Calibration certificates/Temperature	
ISO calibration certificate/Temperature	0520 0001
ISO calibration certificate/Temperature Meas. instr. with air/immersion probe; cal. points 0°C; +150°C; +300°C	0520 0021
ISO calibration certificate/Temperature Thermometers with surface probe; calibration points +60°C; +120°C; +180'	0520 0071 °C
DKD calibration certificate/Temperature Meas. instr. with air/immersion probe; calibration points -20°C; 0°C; +60°C	0520 0211 C
DKD calibration certificate/Temperature Contact surface temperature probes; calibration points +100°C; +200°C; +3	0520 0271 000°C
Calibration certificates/Humidity	
ISO calibration certificate/Humidity Cal points freely selectable from 5 to 95%RH at +15 to +35°C or at -18 to +	0520 0106 80°C
ISO calibration certificate/Humidity Electronic hygrometers; calibration points 11.3%RH and 75.3%RH at +25°(0520 0006 C
ISO calibration certificate/Pressure dew point Two adjustment points -10/-40 °C tpd	0520 0136
ISO calibration certificate/Humidity Saturated saline solutions: calibration point 11.3%RH	0520 0013
ISO calibration certificate/Humidity Saturated saline solutions, calibration point 75.3%RH	0520 0083
DKD calibration certificate/Humidity Electronic hygrometers; calibration points 11.3%RH and 75.3%RH at +25°(0520 0206 C
DKD calibration certificate/Humidity Cal. points freely selectable from 5 to 95%RH at +25°C or -20°C to +85°C	0520 0216
DKD calibration certificate/Humidity Saturated saline solutions; calibration point 11.3%RH	0520 0213
DKD calibration certificate/Humidity Saturated saline solutions; calibration point 75.3%RH	0520 0283
Calibration certificates/Pressure	
ISO calibration certificate/Pressure Differential pressure; 5 points distributed over meas. range	0520 0005
DKD calibration certificate/Pressure Diff. and pos. pressure; 6 meas. points distributed over meas. range (>0.6%	0520 0225 o of fsv)
ISO calibration certificate/Pressure Differential pressure, accuracy 0.1 to 0.6 (% of fsv)	0520 0025
DKD calibration certificate/Pressure Differential and positive pressure; 11 measuring points distributed over the	0520 0215 instrument measuring range
ISO calibration certificate/Pressure Absolute pressure, accuracy 0.1 to 0.6 (% of full-scale value)	0520 0125
DKD calibration certificate/Pressure Absolute pressure; 11 measuring points distributed over meas. range	0520 0212
Calibration certificates/Velocity	
ISO calibration certificate/Velocity All velocity probes, calibration points selectable from 0.3 to 50 m/s at +25°	0520 0104 C
ISO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration points 1; 2; 5; 10 m/s	0520 0004
ISO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration points 5; 10; 15; 20 m/s	0520 0034
ISO calibration certificate/Velocity Hot wire, vane anemometer; calibration points 0.5; 0.8; 1; 1.5 m/s	0520 0024
DKD calibration certificate/Velocity Hot wire, vane anemometer; calibration points 0.5; 1; 2; 5; 10 m/s	0520 0244
DKD calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration points 2; 5; 10; 15; 20 m,	0520 0204 /s
DKD calibration certificate/Velocity Hot wire anemometer; calibration points 0.1; 0.2; 0.5; 0.8; 1 m/s	0520 0224

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Prohe type	Vane	Thermal	Testo humid sensor can	Pressure	aw value
TTODE LYPE	Turio	monna	rooto nama. concer, cap.	Troodero	
Meas. range	0 to +60 m/s	0 to +20 m/s	0 to +100 %RH	0 to +2000 hPa	0 to +1 aW
Accuracy ±1 digit	See probe data for system accuracy	±0.01 m/s (0 to +1.99 m/s) ±0.02 m/s (+2 to +4.9 m/s) ±0.04 m/s (+5 to +20 m/s)	See probe data	Probe 0638 1347 Probe 0638 1447 Probe 0638 1547 Probe 0638 1647 Probe 0638 1647 Probe 0638 1747 Probe 0638 1747 Probe 0638 1741 Probe 0638 1841 Probe 0638 1941 Probe 0638 2041 Probe 0638 2141 ±0.2% of mv	See probe data
Resolution	0.01 m/s (for Ø 60/100 mm), 0.1 m/s (for rem. probes)	0.01 m/s (0 to +20 m/s)	0.1 %RH (0 to +100 %RH)	0.001 hPa (Probe 0638 1347) 0.001 hPa (Probe 0638 1347) 0.01 hPa (Probe 0638 1547) 0.1 hPa (Probe 0638 1647) 0.1 hPa (Probe 0638 1647) 0.1 hPa (Probe 0638 1847) 0.01 bar (Probe 0638 1847) 0.01 bar (Probe 0638 1841) 0.01 bar (Probe 0638 1941) 0.01 bar (Probe 0638 2041) 0.01 bar (Probe 0638 2141)	

Probe type	NTC	Pt100	Type K (NiCr-Ni)	Type S (Pt10Rh-Pt)	Type J (Fe-CuNi)
Meas. range	-40 to +150 °C	-200 to +800 °C	-200 to +1370 °C	0 to +1760 °C	-200 to +1000 °C
Accuracy ±1 digit	±0.2 °C (-10 to +50 °C) ±0.4 °C (-40 to -10.1 °C) ±0.4 °C (+50.1 to +150 °C)	±0.1 °C (-49.9 to +99.9 °C) ±0.4 °C (-99.9 to -50 °C) ±0.4 °C (+100 to +199.9 °C) ±1 °C (-200 to -100 °C) ±1 °C (+200 to +800 °C)	±0.4 °C (-100 to +200 °C) ±1 °C (-200 to -100.1 °C) ±1 °C (+200.1 to +1370 °C)	±1 °C (0 to +1760 °C)	±0.4 °C (-150 to +150 °C) ±1 °C (-200 to -150.1 °C) ±1 °C (+150.1 to +1000 °C)
Resolution	0.1 °C (-40 to +150 °C)	0.01 °C (-99.9 to +300 °C) 0.1 °C (-200 to -100 °C) 0.1 °C (+300.1 to +800 °C)	0.1 °C (-200 to +1370 °C)	1 °C (0 to +1760 °C)	0.1 °C (-200 to +1000 °C)

Probe type	CO2 probe	CO probe	Mechanical	Current/voltage measurement	Current/voltage measurement
Meas. range	0 to +1 Vol. % CO ₂ 0 to +10000 ppm CO ₂	0 to +500 ppm CO	+20 to +20000 rpm	0 to +20 mA (0554 0007) 0/4 to 20 mA (0554 0528)	0 to +10 V
Accuracy ±1 digit	See probe data	±5% of mv (0 to +500 ppm CO)	(+20 to +20000 rpm)	±0.04 mA (0 (0554 0007) to +20 mA) See probe (0554 0528) data	±0.01 V (0 to +10 V)
Resolution			1 rpm (+20 to +20000 rpm)	0.01 mA (0 to +20 mA)	0.01 V (0 to +10 V)

Oper. temp.	0 to +50 °C
Storage temp.	-25 to +60 °C
Display	LCD, 4 lines
Battery type	1,5 V AA
Battery life	18 h
PC	RS232 interface
Weight	500 g
Material/Housing	ABS
Warranty	3 years
Memory	45000

Memory space in basic version: 128 KB corresponding to approx. 45,000 readings With memory upgrade: 1 MB corresponding to approx. 500,000 readings Other features: automatic probe recognition Power: Battery/rech. battery, alternatively 8 V mains unit Battery life in continuous operation with 2 T/C probes

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Suitable probes at a glance

Singer quick this impossible presenting probe of the spectral intermal by the spectra intermal by the spectra intermal by the spectral intermal by t	Probes Type K (NiCr-Ni)	Illustration		Meas. range	Accuracy	t ₉₉	Part no.
Op/Instructure in grade and inquite will a beer month to throme by the second interaction of the grade inquite grade and a constructure of the second interaction of the grade inquite grade and a constructure of the second interaction of the grade inquite grade and a constructure of the second interaction of the grade inquite grade and a constructure of the second interaction of the grade inquite grade and a constructure of the second interaction of the grade inquite grade and a constructure of the second interaction of the second inter	Super quick-action immersion/penetration probe	150 mm 21) mm	-200 to +600 °C	Class 1	1 s	0604 9794
Cold	for measurements in gases and liquids with a low- mass tin	Ø 1.4 mm Ø 0	.5 mm				0614 9794 *
Instructure problem Instructure problem <thinstructure problem<="" th=""> Instructure problem</thinstructure>	Thermoscuple, made of fibre, close insulated	2000 mm		0001 400.00	0		
House outs applie with spring harmong lating of the microling lating in the lating applies with the lat	thermal pipes, pack of 5			-200 to +400 °C Insulation: twin conductor	GIASS I ; flat, oval, opposed and covered with fibre-glass	5 S s, both	0644 1109
Out-Address arkes proke with gring frame of the main and construct acts 9400 010 Struggert Out-Address arkes proke with gring frameworks of the out-of the second of t		Please order adapter 0600 1693	ð 0.8 mm	conductors are wrapped to order adapter 0600 1693	ogether with fibre-glass and soaked with lacquer,	please	
Hemicologic sign. Insuling args shot Hemicologic sign. The pin tract control cale 400 01 21 of 001 61 sign. Description Descripion Description Description <td>Quick-action surface probe with sprung</td> <td>150 mm</td> <td></td> <td>-200 to +300 °C</td> <td>Class 2</td> <td>3 s</td> <td>0604 0194</td>	Quick-action surface probe with sprung	150 mm		-200 to +300 °C	Class 2	3 s	0604 0194
Cont. Pulper has contracted due los due	thermocouple strip, measuring range short-term to		mm				0614 0194 *
Super (production statuse production status productin productin status production status production status		Conn.: Plug-in nead. connection cable 0430 0143 or 0430 0145 required					
Note: Note: <th< td=""><td>angle, with sprung thermocouple strip</td><td></td><td></td><td>-200 to +300 °C</td><td>Class 2</td><td>3 s</td><td>0604 0994</td></th<>	angle, with sprung thermocouple strip			-200 to +300 °C	Class 2	3 s	0604 0994
Babba surface probe 13mm 14mm -200 to +600 °C Class 1 25 0664 9933 Rebults surface probe at 60° angle, soliable to Cont: Plug in head contention table 050 0145 required -200 to +600 °C Class 1 25 0664 9933 - Rebults surface probe at 60° angle, soliable to Cont: Plug in head contention table 050 0145 or 0400 0145 required -200 to +600 °C Class 1 25 0600 0984 Rebults surface probe with sprung therm couple structure in angle to 5 700° C Cont: Flug in head contention table 050 0145 or 0400 0145 or 0400 °C Class 2 0600 0984 Bable surface probe for measurements on rolles and roll of 040 0145 or 0400 °C Class 2 0600 1783 0600 0983 Bable surfaces Cont: Flug in table or 000 contention of 010 contento of 010 contention of 010 contento of 010 contentio		100 mm Conn.: Plu	g-in hea	d. connection cable 043	0 0143 or 0430 0145 required		
Arm Ort Ort <td>Robust surface probe</td> <td>150 mm</td> <td></td> <td>-200 to +600 °C</td> <td>Class 1</td> <td>25 s</td> <td>0604 9993</td>	Robust surface probe	150 mm		-200 to +600 °C	Class 1	25 s	0604 9993
Robust surface probe at 50° angle, subleb for inaccessible places Image: subleb for a second state index of 000 in 4000 °C Class 1 25 0604 4883 0614 4883 Robust surface probe with symp thermocupel and complex and the index of one complex index state index of 000 in 4000 °C Class 2 3.8 0600 0593 Robust surface probe for massurements on robust symp thermocupel and complex index state probe for massurements on robust symp the index states probe for massurements on robust symp the index states probe for massurements on robust symp. 3.6 0600 0593 0600 0593 Magnetic probe, anthesize prose approx. 0.0 H, with magnets, for measurements on robust symp. 3.6 0.600 1494 0.600 0473 Magnetic probe, anthesize prose approx. 0.0 H, with magnets, for measurements on robust symp. 3.6 0.600 1494 0.600 1494 Magnetic probe, anthesize prose approx. 0.0 H, with magnets, for measurements on robust symp. 3.6 0.600 1494 0.600 1494 Magnetic probe, anthesize prose approx. 0.0 H, with magnets, for measurements on robust symp. 3.6 0.600 1494 0.600 1494 Magnetic probe, anthesize prose approx. 0.0 H, with magnets, for measurements on robust symp. 3.6 0.600 1494 0.600 1494 Magnetic probe, anthesize prose approx. 0.0 H, with magnets, for measurements on robust symp. 3.6 0.600 1494 0.600 1494							0614 9993 *
notes all and proce, at 60 maple, solucie 101 000 maple (100 maple) -200 maple	Debugt surface and the st 000 sector surface.	Conn.: Plug-in nead. connection cable 0430 0143 or 0430 0145 required					
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Bobel strates prote with sprung thermozouple ship for high temperature range up to +700°C Class 2 3 s 6600 0384 Roller surface prote for measurements on rollers and rotating furms, accurate tendential velocity		Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required					0014 9093
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Interface and rotating druns, max. circumferential velocit Contr. Freet calle, color 90 to -40 °C Class 2 0600 5093 Magnetic probe, adhesive power approx. 20 N, with magnets, for measurements on mella surfaces Som	strip for high temperature range up to +700°C		5 mm				
Autor and prode to insearch initiation of the initiat	Pollor ourfood probe for measurements on rollore	Conn.: Fixed cable, colled		50.0.000	0		
13 to 400m/min Come. Fixed cable, colled Magnetic probe, adhesive power approx. 20 N, with magnets, for higher temperatures, on reliad subtace Some Conn. Fixed cable Octow 400 °C Class 2 0600 4893 With magnets, for higher temperatures, on reliad subtace Conn. Fixed cable 270 m -50 to +400 °C Class 2 0600 4893 Miniture surfaces Conn. Fixed cable 270 m -200 to +400 °C Class 2 3 0600 1494 Adhesive thermocupie, pack of 2, carrier Conn. Fixed cable Conn. Fixed cable Conn. Fixed cable 0644 1607 Store approx (charrier) Conn. Fixed cable Conn. Fixed cable Conn. Fixed cable Conn. Fixed cable Adhesive thermocupie, pack of 2, carrier Conn. Fixed cable Conn. Fixed cable Conn. Fixed cable Conn. Fixed cable Store approx (charrier) Conn. Fixed cable Conn. Fixed cable Conn. Fixed cable Conn. Fixed cable Store approx (charrier) Conn. Fixed cable Store approx (charrier) Conn. Fixed cable Conn	and rotating drums, max. circumferential velocity	274 mm Ø 33 mm		-50 to +240 °C	Class 2		0600 5093
Magnetic probe, athebrie porte,	18 to 400m/min	Conn.: Fixed cable, coiled					
with magnets, for measurements on metal surfaces Magnetic probe, adhesive power approx. 10 N, with magnets, for higher temperatures, measures Com:: Fixed cable 0600 4893 Miniature surface probe for measurements on metal surfaces Com:: Fixed cable 0600 4893 Miniature surface probe for measurements on metal surfaces Com:: Fixed cable 0600 4893 Adhesive thermocouple, pack 02, carrier Com:: Fixed cable 0604 400 °C Class 2 3 s 0600 1494 Adhesive thermocouple, pack 02, carrier Com:: Fixed cable The measuring point using conventional athesives or silicone beat path 6554 0004 Class 1 3 s 0604 4023 Fast response immersion/penetration probe Com:: Fixed cable Com:: Fixed cable -200 to +400 °C Class 1 3 s 0604 4023 Super quick-action immersion/penetration probe Com:: Fixed measuring point using conventional athesives or silicone beat path 6554 0004 -200 to +400 °C Class 1 1 s 0604 4023 Super quick-action immersion/penetration probe Com:: Fixed measurements in liquids -200 to +400 °C Class 1 1 s 0604 4033 - Super quick-action immersion/penetration probe Com:: Fixed measurements in liquids -200 to +400 °C Class 1 1 s 0604 4033 -	Magnetic probe, adhesive power approx. 20 N,	35 mm		-50 to +170 °C	Class 2		0600 4793
Com: Field cable -50 to +400 °C Class 2 0600 4893 Miniture surface probe for measurements on electronic components, small motors -20 to +400 °C Class 2 3 s 0600 1494 Adhesive thermocouple, pack of 2, carrier material atuminium foil -50 to +400 °C Class 1 0644 1607 Adhesive thermocouple, pack of 2, carrier material atuminium foil -50 to +400 °C Class 1 0644 1607 Staff express immersion/penetration probe -50 to +400 °C Class 1 3 s 0604 0293 Adhesive thermocouple, pack of 2, carrier material atuminium foil -50 to +400 °C Class 1 3 s 0644 1607 East response immersion/penetration probe	with magnets, for measurements on metal surfaces	Ø 20 mm					
Magnetic probes, andinsive proder approx. TO W, To Sm 15 mm So to +400 °C Class 2 0600 4883 Miniature surface probe for measurements on or measurements on or measurements on measurements on measurements on electronic components, small motors 00 to +400 °C Class 2 3 s 0600 4883 Adhesive thermocouple, pack of 2, carrier measurements on electronic components, small motors 00 to +400 °C Class 1 0644 1607 State at the measuring point using conventional athesives or silcone heat paste 0554 0004 10 mm tick. -200 to +400 °C Class 1 0644 1607 Fast response immersion/penetration probe 0.00000000000000000000000000000000000	Manual contraction and the state	Conn.: Fixed cable					
on metal surfaces Com:: Flued cable Miniature surface probe for measurements on electronic components, small motors 20 mm -200 to +400 °C Class 2 3 s 0600 1494 Adhesive thermocouple, pack of 2, carrier 0 mm 0 mm bick 0 mm bick 0 mm bick 0 mm bick Is thed at the measuring point using conventional adhesives or silicone heat pase 0554 0004 0 mm bick 0 mm bick 0 mm bick 0 mm bick Super quick-action immersion/penetration probe 0 mm of 430 0430 of 43 or 0430 043 or 0430 0445 required -200 to +400 °C Class 1 3 s 0604 0493 Super quick-action immersion/penetration probe 0 mm of 430 0430 of 43 or 0430 043 or 0430 0445 required -200 to +600 °C Class 1 1 s 0604 0493 Super quick-action immersion/penetration probe 0 mm of 430 0445 required -200 to +600 °C Class 1 1 s 0604 0493 Super quick-action immersion/penetration probe 0 mm of 430 0445 required -200 to +600 °C Class 1 1 s 0604 0493 Super quick-action immersion/penetration probe 0 mm of 430 0445 required -200 to +100 °C Class 1 1 s 0604 0493 Super quick-action immersion/penetration probe 0 mm of 430 0445 required -200 to	with magnetic for higher temperatures, measures	/5 mm Ø 21 mm		-50 to +400 °C	Class 2		0600 4893
Miniature surface probe for measurements on electronic components, small motors 200 mm -200 to +400 °C Class 2 3 s 0600 1494 Adhesive thermocouple, pack of 2, carrier material: aluminium foil 0	on metal surfaces	Conn.: Fixed cable					
electronic components, small motors Gom.: Fixed cable Adhesive thermocouple, pack of 2, carrier materia: aluminium foil Diameter ademotion 2, 02 200 to +200 °C Class 1 0644 1607 Is fixed at the measuring point using conventional adhesives or silicone heat paste 0554 0004	Miniature surface probe for measurements on	270 mm		-200 to +400 °C	Class 2	3 s	0600 1494
Lonn: rised calle Density extension / Class 1 0644 1607 Adhesive thermocouple, pack of 2, carrier material: aluminium foil Ibender textension 2: 0.22 -200 to +200 °C Class 1 0644 1607 Fast response immersion/penetration probe Immediate aluminium foil Immediate aluminium foil 3 s 0604 0293 614 0293 614 0293 614 0293 614 0293 614 0293 614 0293 614 0293 614 0293 614 0293 614 0493 614 0493 614 0493 614 0493 661 04933 614 0493 661 04933	electronic components, small motors	Ø5 mm					
Autores the fill flocuppe, lack U 2, dailing methods Diameter advances of the measuring 2x 02 -200 to +400 °C Class 1 064 1607 Fast response immersion/penetration probe 190 mm -200 to +400 °C Class 1 3 s 0604 0293 - Super quick-action immersion/penetration probe for measurements in liquids -200 to +400 °C Class 1 1 s 0664 0493 - Super quick-action immersion/penetration probe for measurements in liquids -200 to +100 °C Class 1 1 s 0664 0493 - Super quick-action immersion/penetration probe for measurements in liquids -200 to +100 °C Class 1 1 s 0664 0493 - Super quick-action immersion/penetration probe for high temperatures -200 to +100 °C Class 1 1 s 0664 0593 - Super quick-action immersion/penetration probe made of V4A strengt and one-proof, e.g. for the tood sector -200 to +100 °C Class 1 1 s 0664 9794 - Comm: Flug-in head. connection cable 0430 0143 required -200 to +600 °C Class 1 1 s 0664 9794 - Super quick-action immersion/penetration probe made of V4A staines stell, with exchangeable measuring to 2 for measurements in non-ferrous measurements in non-ferrous measurements in non-ferrous measurements in non-ferrous measure	Adhaaiya tharmaaayala naak of 2 carrier			0001.000.00	0		
Is fixed at the measuring point using conventional adhesives or silicone heat paste 0554 0004 Fast response immersion/penetration probe Gonn:: Plug-in head. connection cable 0430 0145 required Conn:: Flug-in head. connecti	material: aluminium foil	Diameter extensi mm, 0.1 mm thic	on 2 x 0.2 k	-200 to +200 °C	CIASS I		0644 1607
Fast response immersion/penetration probe 150 mm -200 to +400 °C Class 1 3 s 0604 0293 0614 0493 0614 0493 0614 0493 0614 0493 0614 0493 0614 0493 0614 0493 0614 0493 0614 0493 0614 0493 0614 0493 0614 0493 0614 0493 0614 0493 0614 0493 0614 0593 0614 9794 0614 9794 0614 9794 0614 9794 <td>Is fixed at the measuring point using conventional adhesives</td> <td>or silicone heat paste 0554 0004</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Is fixed at the measuring point using conventional adhesives	or silicone heat paste 0554 0004					
03 mm 0614 0293 • Super quick-action immersion/penetration probe for measurements in liquids 150 mm -200 to +600 °C Class 1 1s 0664 0493 0614 0493 • Super quick-action immersion/penetration probe for high temperatures 150 mm -200 to +600 °C Class 1 1s 0604 0493 0614 0493 • Super quick-action immersion/penetration probe for high temperatures 15 mm -200 to +100 °C Class 1 1s 0604 0593 0614 0593 • Super quick-action immersion/penetration probe for high temperatures 15 mm -200 to +100 °C Class 1 1s 0604 9794 0614 0593 • Super quick-action immersion/penetration probe for measurements in gases and liquids with a low mass tip 150 mm -200 to +400 °C Class 1 1s 0604 9794 0614 9794 • Robust immersion/penetration probe for measurements in gases and liquids with a low conn: Flued cable 150 mm -200 to +400 °C Class 1 3s 0600 2593 • Singling probe for measurements in non-ferrous melting baths, with exchangeable measuring tips 100 mm -200 to +120 °C Class 1 6s 0s 0600 5993 Pipe wrap probe for pipes up to 2° in diameter 100 mm 65 mm -200	Fast response immersion/penetration probe	150 mm		-200 to +400 °C	Class 1	3 s	0604 0293
Super quick-action immersion/penetration probe for measurements in liquids with a low- mass tip Source quick-action immersion/penetration probe for high temperatures connection cable 0430 0143 or 0430 0145 required Conn: Plug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 or 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 required Conn: Flug-in head. connection cable 0430 0145 required		Ø 3 mm					0614 0293 *
Super quick-action immersion/penetration probe for measurements in liquids 1 00 04 0433 1 00 04 0433 1 00 0614 0433 0 0143 or 0430 0145 required 1 s 0 004 0433 0 0614 0493 0 0614 0493 0 0614 0493 Super quick-action immersion/penetration probe for high temperatures 1 s 0 0640 0593 0 0614 0593 0 0614 9794	Super quick action immersion/penatration proba	160 mm		200 to . 600 %C	Class 1	1.0	0004.0400
Com:: Plug-in head. connection cable 0430 0143 or 0430 0143 or 0430 0145 required -200 to +1100 °C Class 1 1 s 0604 0593 Super quick-action immersion/penetration probe for high temperatures -200 to +100 °C Class 1 1 s 0604 0593 Super quick-action immersion/penetration probe for measurements in gases and liquids with a low mass tip -200 to +600 °C Class 1 1 s 0604 9794 Robust immersion/penetration probe for measurements in gases and liquids with a low measing probe for measurements in gases and liquids with a low measing -200 to +400 °C Class 1 1 s 0604 9794 Robust immersion/penetration probe for head. connection cable 0430 0143 or 0430 0145 required -200 to +400 °C Class 1 3 s 0600 2593 Robust immersion/penetration probe for measurements in non-ferrous melting probe for measurements in non-ferrous melting baths, with exchangeable measuring tips -000 to +1250 °C Class 1 60 s 0600 5993 Pipe wrap probe for pipes up to 2" in diameter -000 m:: Fixed cable -60 to +130 °C Class 2 5 s 0602 0092 Spare meas. head for pipe wrap probe -15 mm -60 to +130 °C Class 2 5 s 0602 0092	for measurements in liquids	Ø 1.5 mm		-200 10 +600 -0	CIASS I	IS	0614 0493
Super quick-action immersion/penetration probe for high temperatures 470 mm 0 1.5 mm Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required -20 to +1100 °C Class 1 1 s 0604 0593 0614 0593 Super quick-action immersion/penetration probe for measurements in gases and liquids with a low- mass tip 150 mm Conn.: Plug-in head. connection cable 0430 0145 required -200 to +600 °C Class 1 1 s 0604 0593 0614 0593 Robust immersion/penetration probe for measurements in gases and liquids with a low- mass tip 150 mm Conn.: Plug-in head. connection cable 0430 0145 required -200 to +400 °C Class 1 1 s 0604 0593 0614 9794 - Robust immersion/penetration probe made of V4A stainless steel, waterproof and oven-proof, e.g. for the food sector 150 mm Conn.: Fixed cable -200 to +400 °C Class 1 3 s 0600 2593 Smelting probe for measurements in non-ferrous melting baths, with exchangeable measuring tips 100 mm Conn.: Fixed cable -200 to +1250 °C Class 1 60 s 0600 5993 Pipe wrap probe for pipes up to 2* in diameter		Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required					0014 0433
tor high temperatures 0614 0593 Super quick-action immersion/penetration probe for measurements in gases and liquids with a low mass tip 150 mm 0.14 mm 0.05 mm Conn.: Plug-in head. connection cable 0430 0143 or 0430 0143 required -200 to +600 °C Class 1 1 s 0604 9794 0614 9794 • Robust immersion/penetration probe for measurements in gases and liquids with a low mass tip 0000 2593 •	Super quick-action immersion/penetration probe	470 mm		-200 to +1100 °C	Class 1	1 s	0604 0593
Super quick-action immersion/penetration probe for measurements in gases and liquids with a low- mass tip Robust immersion/penetration probe made of VAA stainless steel, waterproof and oven-proof, e.g. for the food sector Smelting baths, with exchangeable measuring tips Pipe wrap probe for pipes up to 2° in diameter Spare meas. head for pipe wrap probe $\underbrace{100 \text{ mm}}_{0 \text{ mm}} \underbrace{150 \text{ mm}}_{0 \text{ mm}} \underbrace{20 \text{ mm}}_{0 \text{ 0.5 mm}} -200 \text{ to } +00 \text{ °C}}_{0 \text{ class 1}} Class 1$	for high temperatures	Ø 1.5 mm					0614 0593 *
Object quick autominimetry of yone ration minimetry of yone ration minimetry of yone ration minimetry of yone ration minimetry of yone ration probemate of V4A stainless steel, waterproof and oven-proof, e.g. for the food sector a 15 mm a 0 0 0 2 5 9 3 a 0 0 0 2 5 9 3 a 0 0 0 0 2 5 9 3 a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Super quick-action immersion/nenatration probe	150 mm 2) mm	200 to . 600 °C	Class 1	1.0	0604 0704
mass tip com:: Plug-in head. connection cable 0430 0143 or 0430 0145 required control 4400 °C Class 1 3 s 0600 2593 Robust immersion/penetration probe made of V4A stainless steel, waterproof and oven-proof, e.g. for the food sector Image: Control 400 °C Class 1 3 s 0600 2593 Smelting probe for measurements in non-ferrous melting baths, with exchangeable measuring tips Image: Control 400 °C Class 1 60 s 0600 5993 Pipe wrap probe for pipes up to 2" in diameter Image: Control 400 °C Class 2 5 s 0600 4593 Spare meas. head for pipe wrap probe Image: Time 15 mm -60 to +130 °C Class 2 5 s 0602 0092	for measurements in gases and liquids with a low-	Ø 1.4 mm Ø 0	.5 mm	-200 10 +000 0	GIdSS I	15	0614 9794 0614 9794 *
Robust immersion/penetration probe made of V4A stainless steel, waterproof and oven-proof, e.g. for the food sector 150 mm Ø 3.5 mm -200 to +400 °C Class 1 3 s 0600 2593 Smelting probe for measurements in non-ferrous melting baths, with exchangeable measuring tips 1100 mm Conn:: Fixed cable -200 to +1250 °C Class 1 60 s 0600 5993 Pipe wrap probe for pipes up to 2" in diameter Conn:: Fixed cable -00 to +130 °C Class 2 5 s 0600 4593 Spare meas. head for pipe wrap probe 15 mm -60 to +130 °C Class 2 5 s 0602 0092	mass tip	Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required					0014 0104
stainless steel, waterproof and oven-proof, e.g. for the food sector 0.3.5 mm 0.3.5 mm <td>Robust immersion/penetration probe made of V4A</td> <td>-150 mm</td> <td></td> <td>-200 to +400 °C</td> <td>Class 1</td> <td>3 s</td> <td>0600 2593</td>	Robust immersion/penetration probe made of V4A	-150 mm		-200 to +400 °C	Class 1	3 s	0600 2593
Simulation contained cont	stainless steel, waterproof and oven-proof, e.g. for the food sector	Ø 3.5 mm Ø 3 m	n				
Find mage probe for mediation in for birded 1100 mm -200 fb +1200 °C Class 1 60 °C 0000 3993 Pipe wrap probe for pipes up to 2" in diameter	Smelting probe for measurements in pon-ferrous			200 to 1250 °C	Class 1	60.0	0600 6002
Conn: Fixed cable Pipe wrap probe for pipes up to 2" in diameter Image: Conn: Fixed cable -60 to +130 °C Class 2 5 s 0600 4593 Spare meas. head for pipe wrap probe Image: Spare meas -60 to +130 °C Class 2 5 s 0602 0092	melting baths, with exchangeable measuring tips	1100 mm Ø 6.5 mm		-200 10 +1250 6	GIdSS I	00.5	0000 2992
Pipe wrap probe for pipes up to 2" in diameter -60 to +130 °C Class 2 5 s 0600 4593 Spare meas. head for pipe wrap probe -5 mm -60 to +130 °C Class 2 5 s 0602 0092		Conn.: Fixed cable					
Conn.: Fixed cable -60 to +130 °C Class 2 5 s 0602 0092	Pipe wrap probe for pipes up to 2" in diameter	▶ ─── ▲		-60 to +130 °C	Class 2	5 s	0600 4593
Spare meas. head for pipe wrap probe $-60 \text{ to } +130 \text{ °C}$ Class 2 5 s 0602 0092		Conn - Fixed cable					
15 mm -00 10 + 130 C Class 2 5 S 0602 0092	Share meas head for hine wrap probe			-60 to 120 °C	Class 2	5.0	0602 0002
		35 mm		30101100 0	S 1200 E	0.0	0002 0002

*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

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Suitable probes at a glance

Probes Type K (NiCr-Ni)	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Plug-in measuring tip, 750mm long, flexible, for high temperatures, outer casing: stainless steel 1.4541	750 mm Ø 3 mm Please order handle with Part no. 0600 5593	-200 to +900 °C	Class 1	4 s	0600 5393
Plug-in measuring tip, 1200 mm long, flexible, for high temperatures, outer casing: stainless steel 1.4541	1200 mm Ø 3 mm Please order handle with Part no. 0600 5593	-200 to +900 °C	Class 1	4 s	0600 5493
Plug-in measuring tip, 550mm long, flexible, for high temperatures, outer casing: Inconel 2.4816	550 mm Ø 3 mm Please order handle with Part no. 0600 5593	-200 to +1100 °C	Class 1	4 s	0600 5793
Plug-in measuring tip, 1030mm long, flexible, for high temperatures, outer casing: Inconel 2.4816	1030 mm Ø 3 mm Please order handle with Part no. 0600 5593	-200 to +1100 °C	Class 1	4 s	0600 5893

Probes Pt100	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Standard air probe	150 mm cross 0 9 mm O con.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 +600 °C	Class A	75 s	0604 9773
Precision air probe	150 mm Ø 3 mm Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-100 to +400 °C	1/10 Class B (0 to 100°C) 1/5 Class B (rem. range) to EN 60751	75 s	0628 0017
Robust surface probe	150 mm Ø 4 mm Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-50 to +400 °C Ø 9 mm	Class B	40 s	0604 9973 <i>0628 0018</i>
Velcro probe for pipes with diameter of max. 75 mm	280 mm Confil: Fixed cable	-50 to +150 °C	Class B	40 s	0628 0019
Standard immersion/penetration probe	200 mm Stainless Steel Ø 3 mm Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 to +400 °C	Class A	20 s	0604 0273
Standard immersion/penetration probe	200 mm Nickel Ø 3 mm Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 to +600 °C	Class A	20 s	0604 0274
Highly accurate immersion/penetration probe incl. certificate	295 mm Ø 4 mm Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-40 to +300 °C	±0.05 °C (+0.01 to +100 °C) ±(0.05 °C ±0.05% of mv) (-40 to 0 °C) ±(0.05 °C ± 0.05% of mv) (+100.01 to +300 °C)	60 s	0614 0240
Highly accurate immersion/penetration probe	200 mm Ø 3 mm Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-100 to +400 °C	1/10 Class B (0 to 100°C) 1/5 Class B (rem. range) to EN 60751	30 s	0628 0015
Flexible precision immersion probe, cable heat-proof up to $+300^\circ\text{C}$	1000 mm 50 mm Ø 3.5 mm Ø 6 mm Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-100 to +265 °C	1/10 Class B (0 to 100°C) 1/5 Class B (rem. range) to EN 60751	80 s	0628 0016
Robust immersion/penetration probe with sharpened measuring tip, waterproof and oven- proof	150 mm Ø 3.5 mm Ø 3 mm	-200 to +400 °C	Class A	30 s	0604 2573

*with EEPROM: Precision adjustment for each probe at a measuring point; measuring range limits are saved in probe; 195 extrapolation; surface allowance in surface probe can be adapted to measuring task

Probes NTC	Illustration		Meas. range	Accuracy t	99	Part no.
Highly accurate air probe for air and gas temperature measurements with bare,	-0	150 mm	 -40 to +130 °C	To UNI curve 6	60 s	0610 9714
mechanically protected sensor	Conn.: Fixed cable	bonni				
Globe thermometer to measure radiant heat	Ø 150 mm		0 to +120 °C	±0.5 °C (0 to +49.9 °C) ±1 °C (+50 to +120 °C)		0554 0670
	Conn.: Fixed cable			Accuracy corresponds to ISO 7243, ISO 7726, DI 27726, DIN 33403 requirements	IN EN	

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Suitable probes at a glance

More probes	Illustration	Meas. range	Accuracy	Part no.
Ambient CO probe to measure CO level in ambient air	Ø 25 mm	0 to +500 ppm CO	±5% of mv (+100.1 to +500 ppm CO) ±5 ppm CO (0 to +100 ppm CO)	0632 1247
	190 mm Conn.: Fixed cable			
CO2 probe measures indoor air quality and monitors the workplace. With plug-in head,		0 to +1 Vol. % CO ₂ 0 to +10000 ppm CO ₂	±(50 ppm CO ₂ ±2% of mv)(0 to +5000 ppm CO ₂)	0632 1240
connection cable 0430 0143 or 0430 0145 required	Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	L. L.	$\pm(100 \text{ ppm CO}_2 \pm 3\% \text{ of mv})(+5001 \text{ to } +10000 \text{ ppm CO}_2)$	
Mechanical rpm probe with plug-in head Included		20 to 20000 rpm	±1 digit	0640 0340
2 probe tips Ø 8 and Ø 12 mm	Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required			
■ 1 hollow cone Ø 8 mm				
1 surface speed disc Ø 19 mm to measure rotationa	al speed: rpm = rotational speed in mm/s			
Current/voltage cable (±1 V, ±10 V, 20 mA)		0 to +1000 mV 0 to +10 V 0 to +20 mA	±1 mV (0 to +1000 mV) ±0.01 V (0 to +10 V) ±0.04 mA (0 to +20 mA)	0554 0007
4 to 20 mA interface for connection and intermittent power supply to transmitters (scaling via hand-held instrument), in robust metal housing with impact protection, incl. magnet for fast attachment	Conn.: Pluo-in head. connection cable 0430 0143 or	0/4 to 20 mA 0430 0145 required	±0.04 mA	0554 0528

Accessories		Part no.
Cable, 1.5 m long, connects probe with plug-in hea PUR coating material	ad to meas. instrument,	0430 0143
Cable, 5 m long, connects probe with plug-in head PUR coating material	to measuring instrument,	0430 0145
Extension cable, 5 m long, between plug-in head ca coating material	able and instrument , PUR	0409 0063
Telescopic handle, max. 1 m, for probe with plug-in PUR coating material	n head, Cable: 2.5 m long,	0430 0144
Glass shaft for immersion/penetration probe to prot For probes with Part nos. 0604 0273 and 0628 001	tect from corrosive agents 5	0554 7072
Adapter to connect NiCr-Ni thermocouples and pro	bes with open wire ends	0600 1693
Handle for plug-in measuring tip		0600 5593
Silicone heat paste (14g), Tmax = +260°C, Improve probes	es heat transfer in surface	0554 0004
Spare measuring tip for smelting probe		0363 1712

More probes

Humidity probes	Illustration	Meas. range	Accuracy		t ₉₉	Part no.
Standard ambient air probe up to +70°C	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
	Plug-in head. connection cable 0430 0143 or 0430 0145 req	uired				
Duct humidity/temperature probe, can be connected	180 mm	0 to +100 %RH	±2 %RH (+2 to +98	±0.4 °C (-10 to +50 °C)	12 s	0636 9715
to telescopic handle	Ø 12 mm	-20 to +70 °C	%KH)	±0.5 °C (remaining range)		
Telescopic handle 0430 9715, see Ordering data/Accessories	Fixed cable					
Thin humidity probe incl. 4 attachable protection caps for	250 mm	0 to +100 %RH	±2 %RH (+2 to +98	±0.4 °C (-10 to +50 °C)	15 s	0636 2130
ambient air measurements, measurements in exhaust air	Ø 4 mm	-20 to +70 °C	%RH) ±0.5 °C (-20 to -10.1 +0.5 °C (+50 1 to +7	±0.5 °C (-20 to -10.1 °C) +0.5 °C (+50 1 to +70 °C)		
ducts and equilibrium moisture measurements	Plug-in head. connection cable 0430 0143 or 0430 0145 req	uired		20.0 0 (100.110 110 0)		
Highly accurate reference humidity/temp. probe		0 to +100 %RH	±1 %RH (+10 to +90	* ±0.4 °C (-10 to +50 °C)	12 s	0636 9741
incl. cal. cert.	Ø21 mm	uired -20 to +70 °C %KH) ±0.5 °C (remaining ran ±2 %RH (remaining quired range)		±0.5 °C (remaining range)		
	Plug-in head. connection cable 0430 0143 or 0430 0145 req					
Humidity/temperature probe		0 +100 %RH	±2 %RH (+2 +98	±0.4 °C (+0.1 to +50 °C)	12 s	0636 9742
	Q Ø 21 mm	-20 to +70 °C	%KH)	±0.5 °C (-20 to 0 °C) +0.5 °C (±50.1 to ±70 °C)		
	Plug-in head. connection cable 0430 0143 or 0430 0145 req	uired		20.0 0 (100.1 0 110 0)		

 * in the temperature range from +10°C to +30°C

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Suitable probes at a glance

Probes Process humidity	Illustration	Meas. range	Accuracy		t ₉₉	Part no.
Standard pressure dew point probe for measurements in compressed air systems		0 to +100 %RH -30 to +50 °C tpd	±0.9 °C tpd (+0.1 to +50 ±1 °C tpd (-4.9 to 0 °C ±2 °C tpd (-9.9 to -5 °C ±3 °C tpd (-19.9 to -10) °C tpd) tpd) tpd) °C tpd) Noradl	300 s	0636 9840
Dresision pressure days point prohe for	Plug-in head. connection cable 0430 0143 or 0430 0	145 required	±4 C (µu (-30 (0 -20 ((pu)	200	
measurements in compressed air systems incl. cert. with test point -40°C tpd	Plug-in head. connection cable 0430 0143 or 0430 0	-60 to +50 °C tpd	±0.8 °C tpd (-4.9 to +30 ±1 °C tpd (-9.9 to -5 °C ±2 °C tpd (-19.9 to -10 ±3 °C tpd (-29.9 to -20 ±4 °C tpd (-40 to -30 °C	*C (pd) *C (pd) *C (pd) *C (pd) \$ (pd)	300 S	0636 9841
High humidity level probe w/ heated sensor element, no humidity on sensor	300 mm Ø 12 mm Plun-in head, connection cable 0430 0143 or 0430 0	0 to +100 %RH -20 to +85 °C 145 required	±2.5 %RH (0 to +10 %RH)	0 ±0.4 °C (-10 to +50 °C) ±0.5 °C (-20 to -10.1 °C) ±0.5 °C (+50.1 to +85 °C)	30 s	0636 2142
Robust high temperature/humidity probe up to ${+}180^{\circ}\text{C}$	300 mm Ø 12 mm Plun-in head connection cable 0430 0143 or 0430 0	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	1500 mm 100 mm Ø 12 mm Ø 12 mm Plug-in head. connection cable 0430 0143 or 0430 0	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	Illustration	Maga ranga	Acourcov		t.,	Dort no.
Flovible humidity prohe with mini module for	liustration	Oto 100 % PH	Accuracy	.0.4.°C (10 to .50.°C)	*99 20 c	Part no.
meas. e.g. on material testing rigs, module cable length 1500mm, probe tip 50x19x7mm	Plug-in head. connection cable 0430 0143 or 0430 0	-20 to +125 °C	*2 %RH) %RH)	±0.4 °C (remaining range)	20.5	0628 0013
Sword probe for measuring humidity and temperature in stacked material	320 mm 18 mm Plun-in head, connection cable 0430 0143 or 0430 0	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)	12 s	0636 0340
Robust humidity probe e.g. for measuring equilibrium moisture or for measurements in exhaust ducts to +120°C	300 mm Ø 12 mm Plun-in head connection cable 0430 0143 or 0430 0	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
Material moisture probe	1500 mm			Free scaling, reference measurement, no water level		0636 0365
Material/building moisture cable		0 to 100 k Ohm = 100 to 0 %		Display values in instrument display mean: 100 to 66 wet; 0 to 1 very dry		0636 0565
Probas awyalua	III		•		+	D .
Probes aw value	Illustration	Meas. range	Accuracy	0.4.00 (404 - 50.00)	L ₉₉	Part no.
aw Vaule set: pressure-tight precision numidity 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 aV	±0.4 °C (-10 to +50 °C) ±0.5 °C (remaining range) V)		0628 0024
Differential pressure probe			•			D 1
Precision pressure probe, 100 Pa, in robust metal housing with impact protection, incl. magnet for fast attachment, to measure differential pressure and velocity speeds (in connection with Pitot tube)	Plun-in head connection cable 0/30 01/3 or 0/30 0	0 to	p +100 Pa ±(C mv	1.3 Pa ±0.5% of)		0638 1347
Pressure probe, 10 hPa, in robust metal housing with impact protection incl. magnet for fast attachment, to measure differential pressure and velocity speeds (in connection with Pitot tube)	Plun-in head connection cable 0430 0143 or 0430 0	0 to	o +10 hPa ±0.	03 hPa		0638 1447
Pressure probe, 100 hPa, in robust metal housing with impact protection, incl. magnet for fast attachment, to measure differential pressure and velocity speeds (in connection with Pitot tube)	Plua-in head, connection cable 0430 0143 or 0430 0	0 to	0 +100 hPa ±0. +11 ±0. hP	5% of mv (+20 to)0 hPa) 1 hPa (0 to +20 a)		0638 1547
Pressure probe, 1000 hPa, measures differential pressure, in robust metal housing with impact protection, incl. quick-closing coupling (M8 x 0.5), magnet for fast attachment	Plug-in head. connection cable 0430 0143 or 0430 0	0 to	5 +1000 hPa ±1 ±0. 100	hPa (0 to 200 hPa) 5% of mv (200 to 00 hPa)		0638 1647
Pressure probe, 2000 hPa, measures differential pressure, in robust metal housing with impact protection, incl. quick-closing coupling (M8 x 0.5), magnet for fast attachment	Plug-in head, connection cable 0430 0143 or 0430 0	0 to	0 +2000 hPa ±2 ±0. 200	hPa (0 to 400 hPa) 5% of mv (400 to 00 hPa)		0638 1747
Pressure probe, 2000 hPa, measures absolute pressure, in robust metal housing with impact protection, incl. quick-		0 to	5 +2000 hPa ±5 hP	hPa (0 to +2000 a)		0638 1847

Plug-in head. connection cable 0430 0143 or 0430 0145 required

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Suitable probes at a glance

Relative pressure probes	Illustration	Meas. range	Accuracy		Part no.
Low pressure probe, refrigerant-proof stainless steel, up to 10 bar	Plug-in head, connection cable 0409 0202 required	-1 to +10 bar	±1% of fsv Overload 25 bar	Screw-in thread 7/16" UNF	0638 1741
High pressure probe, refrigerant-proof stainless steel, up to 30 bar	Plug-in head, connection cable 0409 0202 required	-1 to +30 bar	±1% of fsv Overload 120 bar	Screw-in thread 7/16" UNF	0638 1841
High press. probe, refrigerant-proof st. steel, up to 40 bar	Plug-in head, connection cable 0409 0202 required	-1 to +40 bar	±1% of fsv Overload 120 bar	Screw-in thread 7/16" UNF	0638 1941
High pressure probe, refrigerant-proof stainless steel, up to 100 bar	Plug-in head, connection cable 0409 0202 required	-1 to +100 bar	±1% of fsv Overload 250 bar	Screw-in thread 7/16" UNF	0638 2041
High pressure probe, refrigerant-proof stainless steel, up to 400 bar	Plug-in head, connection cable 0409 0202 required	-1 to +400 bar	±1% of fsv Overload 600 bar	Screw-in thread 7/16" UNF	0638 2141
Caps for humidity probes Ø 12m and 2	21mm	Illustration			Part no.
Metal protection cage, Ø 21 mm for humidity probe- time, robust and temperature-proof. Used when mea	s, material: stainless steel V4A. Quick adjustment suring velocities of less than 10 m/s		Ø 21 mm	All humidity probes with Ø 21 mm	0554 0665
Metal protection cage, Ø 12 mm for humidity probet time, robust and temperature-proof. Used when mea	s, material: stainless steel V4A. Quick adjustment suring velocities of less than 10 m/s.		Ø 12 mm	0636 9740, 0636 9715	0554 0755

Wire mesh filter, Ø 21 mm, insertable filter for metal protection cage and plastic cap. Material: stainless steel V4A, quick adjustment time, protects from dirt and damage. Applications: meteorology, splashwater, condensation.

Cap with wire mesh filter, Ø 12 mm

Teflon sintered filter, Ø 21 mm, PTFE. Not affected by condensation, water-repellent, resistant to corrosive substances. Applications: compressed air measurements, high humidity range (continuous measurements), high velocities

Teflon sintered filter, Ø 12 mm, PTFE. Not affected by condensation, water-repellent, resistant to corrosive substances. Applications: compressed air measurements, high humidity range (continuous measurements), high velocities

Teflon sintered filter, Ø 12 mm, PTFE. Not affected by condensation, water-repellent, resistant to corrosive substances. Applications: compressed air measurements, high humidity range (continuous measurements), high velocities

Teflon sintered filter, Ø 12 mm, PTFE. Not affected by condensation, water-repellent, resistant to corrosive substances. Applications: compressed air measurements, high humidity range (continuous measurements), high velocities

Stainless steel sintered cap, Ø 12mm, made of stainless steel V2A. Highly robust, suitable for penetration, should be cleaned with compressed air, mechanical protection of sensor. Applications: high mechanical loads, high velocity speeds.

Teflon cap, Ø 5 mm, attachable, PTFE material, (5 off). Applications: dust protection, high humidity level measurements, high velocities

Accessories: Humidity probes	Part no.
Cable, 1.5 m long, connects probe with plug-in head to meas. ins PUR coating material	strument 0430 0143
Cable, 5 m long, connects probe with plug-in head to measuring PUR coating material	instrument 0430 0145
Extension cable, 5 m long, between plug-in head cable and instru PUR coating material	ment 0409 0063
Telescopic handle, max. 1 m, for probe with plug-in head Cable: 2.5 m long, PUR coating material	0430 0144
Telescopic handle, 340 - 800mm long	0430 9715
Adapter for surface humidity measuring, for humidity probes Ø 12 Locates damp spots on walls, for example	2mm 0628 0012
Cap for bore holes, for humidity probe Ø 12 mm Measures equilibrium moisture in bore holes	0554 2140
Control and humidity adjustment set 11.3%RH/75.3%RH incl. ac humidity probes	lapter for 0554 0660
Control and storage humidity (33%RH) for humidity probes	0554 0636

Accessories: Pressure probes	Part no.
Connection cable, 2.5 m long, for pressure probes 063	38 1741/1841/1941 0409 0202
Adapter for pressure probes, 1/2" outer thread, 1/4" in for pressure probes 0638 1741/1841/1941/2041/214	ner thread 0699 3127
Cable, 1.5 m long, connects probe with plug-in head t PUR coating material	o meas. instrument 0430 0143
Cable, 5 m long, connects probe with plug-in head to PUR coating material	measuring instrument 0430 0145
Connection hose, silicone, 5m long Max. load 700 hPa (mbar)	0554 0440
Connection hose set, 2 x 1 m, coiled, incl. 1/8" screw Pressure-tight up to 20 bar, for probe 0638 1647/1747	connection 0554 0441 7/1847

All humidity probes with Ø 21 mm

All humidity probes with Ø 12 mm

All humidity probes with Ø 21 mm

0636 9769, 0636 9740, 0636 9715

All humidity probes Ø 21 mm

0636 9740, 0636 9715

0636 2130

0628 0021, 0628 0022, 0636 2140, 0636 2142

Ø 21 mm

Ø 21 mm

Ø 12 mm

Ø 12 mm

Ø 21 mm

Ø 12 mm

Ø5mm

0554 0667

0554 0757

0554 0666

0554 0756

0554 0758

0554 0640

0554 0647

0554 1031

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Vane probes	Illustration	Probe type	e Meas. range	Accuracy	Part no.
Vane probe, Ø 12 mm, can be attached to handle or telescopic handle	180 mm	Ø 12 mm	+0.6 to +20 m/s Oper. temp. -30 to +140 °C	±(0.2 m/s ±1% of mv) (+0.6 to +20 m/s)	0635 9443
Vane/temperature probe, \emptyset 16 mm, attachable to handle or telescopic handle	180 mm	Vane Type K (NiCr-Ni Ø 16 mm	+0.4 to +60 m/s -30 to +140 °C	±(0.2 m/s ±1% of mv) (+0.4 to +60 m/s)	0635 9540
Vane/temperature probe, Ø 25 mm, can be attached to handle or telescopic handle	180 mm	Vane Type K (NiCr-Ni	+0.4 to +40 m/s -30 to +140 °C	±(0.2 m/s ±1% of mv) (+0.4 to +40 m/s)	0635 9640
Bendable vane probe (can be bent by 90°), Ø 60 mm, attachable to handle or telescopic handle, for measurements on ventilation outlets	∞ 200 Ø 60 mm	Vane	+0.25 to +20 m/s Oper. temp. 0 to +60 °C	±(0.1 m/s ±1.5% of mv) (+0.25 to +20 m/s)	0635 9440
Bendable vane probe (can be bent by 90°), Ø 100 mm, attachable to handle or telescopic handle, for measurements on ventilation outlets	Ø 100 mm	Vane	+0.1 to +15 m/s Oper. temp. 0 to +60 °C	±(0.1 m/s ±1.5% of mv) (+0.1 to +15 m/s)	0635 9340
Vane probe, Ø 16 mm, for stationary assembly, 3 m cable (PVC)	250 mm	mm	+0.4 to +60 m/s Oper. temp. 0 to +70 °C	±(0.2 m/s ±1% of mv) (+0.4 to +60 m/s)	0628 0036
High temperature vane probe, Ø 25 mm, with handle for continuous measurements up to $+350^{\circ}\text{C}$	560 mm	Vane Type K (NiCr-Ni Ø 25 mm	+0.6 to +20 m/s -40 to +350 °C	±(0.3 m/s ±1% of fsv) (+0.6 to +20 m/s)	0635 6045
Accessories: Vane probes Professional telescopic handle for plug-in vane prob	Part no. es, max. 1 m long, 0430 0941	Accessories: Vane p Swan neck, flexible connect	robes ion between probe and co	onnection part	Part no. 0430 0001
Extension for telescopic handle, 2 m long Please also order the 0409 0063 extension cable	0430 0942	Magnetic probe holder for vane probes			0554 0430
Handle for plug-in vane probes	0420 2545				
					-
Thermal probes	Illustration	Probe type	e Meas. range 0 to +10 m/s	Accuracy ±(0.03 m/s ±5% of mv)	Part no.
Thermal probes Robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, 2m cable (PVC)	Ullustration 150 mm	Probe type Hot bulb n NTC	e Meas. range 0 to +10 m/s -20 to +70 °C	Accuracy ±(0.03 m/s ±5% of mv) (0 to +10 m/s)	Part no. 0628 0035
Thermal probes Robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, 2m cable (PVC) Affordable, robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, with handle	0430 3043 Illustration 150 mm 160 mm	Probe type Hot bulb NTC Hot bulb NTC	e Meas. range 0 to +10 m/s -20 to +70 °C 0 to +10 m/s -20 to +70 °C	Accuracy ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s)	Part no. 0628 0035 0635 1549
Thermal probes Robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, 2m cable (PVC) Affordable, robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, with handle Robust hot bulb probe, Ø 3 mm, with handle and telescopic handle for measurements in the lower velocity range	USU 3043	Probe type Hot bulb NTC Ø 3 mm Hot bulb NTC Ø 3 mm Hot bulb NTC Ø 3 mm	e Meas. range 0 to +10 m/s -20 to +70 °C 0 to +10 m/s -20 to +70 °C 0 to +10 m/s -20 to +70 °C	Accuracy ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s)	Part no. 0628 0035 0635 1549 0635 1049
Thermal probes Robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, 2m cable (PVC) Affordable, robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, with handle Robust hot bulb probe, Ø 3 mm, with handle Robust hot bulb probe, Ø 3 mm, with handle and telescopic handle for measurements in the lower Velocity range Quick-action hot wire probe, Ø 10 mm, with telescopic handle, for measurements in the lower velocity range with direction recognition	Illustration 150 mm 150 mm 850 mm 760 mm	Probe type Hot bulb NTC Ø 3 mm Hot bulb NTC Ø 3 mm Hot bulb NTC NTC Ø 3 mm Hot bulb NTC NTC Ø 3 mm NTC	e Meas. range 0 to +10 m/s -20 to +70 °C 0 to +20 m/s -20 to +70 °C	Accuracy ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±4% of mv) (0 to +20 m/s)	Part no. 0628 0035 0635 1549 0635 1049 0635 1041
Thermal probes Robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, 2m cable (PVC) Affordable, robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, with handle Robust hot bulb probe, Ø 3 mm, with handle and telescopic handle for measurements in the lower velocity range Quick-action hot wire probe, Ø 10 mm, with telescopic handle, for measurements in the lower velocity range with direction recognition Thermal anemometer, Ø 10 mm, w. telescopic handle, measures air flow in lab fume cupboards to DIN EN 14175 (draft)	Illustration Illustration Image: State of the state o	Probe type Hot bulb NTC Ø 3 mm Hot bulb NTC Ø 3 mm Hot bulb NTC Ø 3 mm Hot wire NTC Ø 10 mm Hot wire NTC	e Meas. range 0 to +10 m/s -20 to +70 °C 0 to +10 m/s -20 to +70 °C 0 to +10 m/s -20 to +70 °C 0 to +20 m/s -20 to +70 °C 0 to +5 m/s 0 to +50 °C	Accuracy ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±4% of mv) (0 to +20 m/s) ±(0.02 m/s ±5% of mv) (0 to +5 m/s)	Part no. 0628 0035 0635 1549 0635 1049 0635 1041 0635 1047
Thermal probes Robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, 2m cable (PVC) Affordable, robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, with handle Robust hot bulb probe, Ø 3 mm, with handle and telescopic handle for measurements in the lower velocity range Quick-action hot wire probe, Ø 10 mm, with telescopic handle, for measurements in the lower velocity range with direction recognition Thermal anemometer, Ø 10 mm, w. telescopic handle, measures air flow in lab fume cupboards to DIN EN 14175 (draft)	Illustration Illustration Iso mm	Probe typ hot bulb NTC Ø 3 mm Ø 3 mm Hot bulb NTC Ø 3 mm Hot bulb NTC Ø 3 mm Hot bulb NTC Ø 10 mm	e Meas. range 0 to +10 m/s -20 to +70 °C 0 to +10 m/s -20 to +70 °C 0 to +10 m/s -20 to +70 °C 0 to +20 m/s -20 to +70 °C 0 to +50 °C 0 to +50 °C	Accuracy ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±4% of mv) (0 to +20 m/s) ±(0.02 m/s ±5% of mv) (0 to +5 m/s)	Part no. 0628 0035 0635 1549 0635 1049 0635 1041 0635 1047
Thermal probes Robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, 2m cable (PVC) Affordable, robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, with handle Robust hot bulb probe, Ø 3 mm, with handle and telescopic handle for measurements in the lower velocity range Quick-action hot wire probe, Ø 10 mm, with telescopic handle, for measurements in the lower velocity range with direction recognition Thermal anemometer, Ø 10 mm, w. telescopic handle, measures air flow in lab fume cupboards to DIN EN 14175 (draft) Differential pressure probes Precision pressure probe, 100 Pa, in robust metal housing with impact protection, incl. magnet for fast attachment, to measure differential pressure and velocity speeds (in connection with Pitot tube)	Illustration 150 mm 150 mm 150 mm 850 mm 760 mm 760 mm 760 mm Differential pressurprobe Differential pressurprobe	re Probe type Hot bulb NTC Ø 3 mm Hot bulb NTC Ø 3 mm Hot bulb NTC Ø 10 mm Hot wire NTC Ø 10 mm	e Meas. range 0 to +10 m/s -20 to +70 °C 0 to +10 m/s -20 to +70 °C 0 to +10 m/s -20 to +70 °C 0 to +20 m/s -20 to +70 °C 0 to +20 m/s -20 to +70 °C 0 to +5 m/s 0 to +50 °C Meas. range 0 to +100 Pa	Accuracy ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±4% of mv) (0 to +20 m/s) ±(0.02 m/s ±5% of mv) (0 to +5 m/s) Accuracy ±(0.3 Pa ±0.5% of mv)	Part no. 0628 0035 0635 1549 0635 1049 0635 1041 0635 1047 Part no. 0638 1347
Thermal probes Robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, 2m cable (PVC) Affordable, robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, with handle Robust hot bulb probe, Ø 3 mm, with handle and telescopic handle for measurements in the lower velocity range Quick-action hot wire probe, Ø 10 mm, with telescopic handle, for measurements in the lower velocity range with direction recognition Thermal anemometer, Ø 10 mm, w. telescopic handle, measures air flow in lab fume cupboards to DIN EN 14175 (draft) Differential pressure probes Precision pressure probe, 100 Pa, in robust metal housing with impact protection, incl. magnet for fast attachment, to measure differential pressure and velocity speeds (in connection with Pitot tube) Pressure probe, 10 PA, in robust metal housing with impact protection incl. magnet for fast attachment, to measure differential pressure and velocity speeds (in connection with Pitot tube)	Illustration 150 mm 150 mm 150 mm 850 mm 760 mm 760 mm Differential pressu probe Differential pressu probe	re	e Meas. range 0 to +10 m/s -20 to +70 °C 0 to +10 m/s -20 to +70 °C 0 to +10 m/s -20 to +70 °C 0 to +20 m/s -20 to +70 °C 0 to +20 m/s -20 to +70 °C 0 to +50 °C Meas. range 0 to +100 Pa 0 to +10 hPa	Accuracy ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±5% of mv) (0 to +10 m/s) ±(0.03 m/s ±4% of mv) (0 to +20 m/s) ±(0.02 m/s ±5% of mv) (0 to +5 m/s) Accuracy ±(0.3 Pa ±0.5% of mv) ±0.03 hPa	Part no. 0628 0035 0635 1549 0635 1049 0635 1041 0635 1047 Part no. 0638 1347 0638 1447

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Additional information at

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Suitable probes at a glance

Prandtl's Pitot tubes	Illustration					Accuracy	Part no.
Pitot tube, 300 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/1445/1545				Ø 4 mm		Oper. temp. 0 to +600 °C	0635 2245
Pitot tube, 350 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/1445/1545		300 mm	J	Ø 7 mm		Oper. temp. 0 to +600 °C	0635 2145
		350 mm				Oper temp	
Pitot tube, 500 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/1445/1545	[Ø 7 mm		0 to +600 °C	0635 2045
Pitot tube, 1000 mm long, stainless steel, measures flow speed when used with pressure		500 mm	J	Ø 7 mm		Oper. temp. 0 to +600 °C	0635 2345
probes 0638 1345/1445/1545		1000 mm					
Straight Pitot tubes Pitot tube, stainless steel, 360 mm long, measures flow speed and temperature, for pressure probes 0638				Probe type Type K (NiCr-Ni)	-40 to +600 °C		Part no. 0635 2040
1347/1447/1547		360 mm	Ø 8 mm	-			
Pitot tube, stainless steel, 500 mm long, measures flow				Type K (NiCr-Ni)	-40 to +600 °C		0635 2140
1347/1447/1547		500 mm	Ø8mm				
Pitot tube, stainless steel, 1000 mm long, measures flow speed and temperature, for pressure probes 0638 1347/1447/1547		1000 mm	Ø 8 mm	lype K (NiCr-Ni) !	-40 to +600 °C		0635 2240
		1000 11111	0 0 11111				
Accessories: Pressure probes Connection hose, silicone, 5m long Max. load 700 hPa (mbar)		Part no. 0554 0440					
Cable, 1.5 m long, connects probe with plug-in hear PUR coating material	d to meas. instrument	0430 0143					
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		270 mm	Ø 21 mm	Hot bulb Testo humid. sensor, cap. NTC	0 to +10 m/s 0 to +100 %RH -20 to +70 °C	±0.03 m/3 ±3% 01 m/0 to 10 m/s) ±2 %RH (+2 to +98 %RH) ±0.4 °C (0 to +50 °C) ±0.5 °C (remaining range)	0635 1540
Comfort level probe for measuring degree of turbulence, with telescopic handle and stand. Fulfills DIN 1946 Part 2 or EN 12 599 requirements		Ø 90 mm		Hot wire NTC	0 to +5 m/s 0 to +50 °C	±(0.03 m/s ±4% of mv) (0 to +5 m/s) ±0.3 °C (0 to +50 °C)	0628 0009
Wet Bulb Globe temperature probe to assess workplaces subjected to heat, in accordance with ISO 7243 or DIN 33403, incl. WBGT case	Ø 150 mm				0 to +120 °C	In accordance with ISO 7243 or DIN 33403	0635 8888 ID No. 0699 4239/1
Accessories: 3-Function probe		Part no.					
Adapter for humidity adjustment of 3-function probe Order with adjustment set	0635 1540	0554 0661					
Cable, 1.5 m long, connects probe with plug-in hear PUR coating material	d to meas. instrument	0430 0143					
Other features	Illustration			Probe type	Meas. range	Accuracy	Part no.
Shell anemometer, 3 m cable, for meteorological wind measurement				Vane	+0.7 to +30 m/s	±(0.3 m/s ±5% of mv) (+0.7 to +30 m/s)	0635 9045

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