



Committing to the future

Measurement Instruments for Industry 2010



Product Highlights

Testodirect.co.uk



Testo have launched a new webshop, helping you to make online purchases quick and easily. There is a wide range of industry products available to purchase. You can also book your service/calibration online. Visit www.testodirect.co.uk to find out more.

Testo Thermal Imaging Camera



Testo Thermal Imaging Cameras can be used in a variety of applications including building surveys, plant maintenance, production monitoring, under floor heating inspections and electrical maintenance.

Even the smallest temperature differences can be identified with the Thermal Sensitivity of Testo's Thermal Imaging cameras. The Testo 875 and 881 quickly and reliably discover anomalies and weak spots in a wide range of applications. Find out more on page 16.

Testo 622 and 623



Temperature, humidity and barometric pressure measuring instruments, ideal for monitoring ambient conditions in Laboratories, universities, hospitals, cleanrooms, pharmaceutical labs, blood banks, warehouses and offices. Find out more on page 32.



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Product Selector Matrix

Reference measuring instruments for ultra-precise requirements:
testo 650, 950, 400

Professional line: High level of functionality and precision:
testo 735, 635, 435

Compact line: Standard measuring instruments:
testo 925, 922, 720, 720 Ex

Infrared measuring instruments: Different models for surface temperature measurement:
testo 881, 875, 845, 830 T1 / -T2 / -T3 / -T4, 810

Mini measuring instruments:
The cost-effective solution for measuring temperatures:
testo 905-T1 / -T2

Rpm measuring instruments, stroboscope, endoscope:
testo 465, 470, 460, 475, 476

Data loggers for long-term monitoring:
testo 175-T3, 177-T4, 175-S1, 175-S2



Profiles

Parameters	Temperature	Air temperature	•				•	•	•
		Immersion temperature in liquids / media	•		•		•	•	•
		Differential temperature	•				•	•	•
		Surface temperature - contact	•		•	•	•	•	•
		Surface temperature - non-contact IR				•			
	Humidity	Air humidity	•			•		•	•
		Material moisture						•	•
		Pressure dew point						•	•
	Pressure	Differential pressure					•		•
		Relative pressure							•
Absolute pressure								•	
Rpm			•					•	
Other	Stroboscope		•					•	
	Endoscope							•	
Technical Features	Multi-channel	•			•	•	•	•	
	Probe selection	•	•		•	•	•	•	
	Wireless probes (radio)					•	•		
	Print function	•			•	•	•	•	
	PC evaluation	•			•		•	•	
	Instrument memory	•			•		•	•	
	Explosion protection	•				•			



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Testo 905-T1 and 905-T2

Pocket Line Penetration and Surface Thermometer



Testo 905-T1 Pocket Line Penetration Thermometer

Compact penetration thermometer with 180° swivel head. Measuring range of -50 to +350 °C (short-term to +500 °C), with up to 1 °C accuracy

Part Number 0560 9055

Price **£56.10**



Testo 905-T2 Pocket Line Surface Thermometer

Compact surface thermometer with spring loaded thermocouple head and 180° swivel head. Measuring range -50 to +350 °C (short-term to +500 °C), with ± 1 °C accuracy ± 1 % mv

Part Number 0560 9056

Price **£74.50**

Testo 810

Pocket Line Air and Surface Temperature Measurement

- Pocket sized measuring instrument
- Surface temperature IR measurement with 1-point laser spot marking and 6:1 optics
- Air temperature measurement
- Display of differential temperature e.g. between surface and air
- Hold function and max/min values



Technical Data

	Surface	Air
Measuring range	-30 to +300 °C	-10 to +50 °C
Accuracy	± 2.0 °C (-30 to +100 °C) ± 2 % of m.v. (remaining range)	± 0.5 °C
Resolution	0.1 °C	0.1 °C

Testo 810

Includes Testo 810, wrist strap, belt holder, protective cap, calibration protocol and batteries

Part Number 0560 0810

Price **£83.40**

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Testo 922 / 925

Contact Temperature Measurement



Fast action Type K thermometers offering a wide measurement range. For use with both corded and optional wireless probes.

Testo 925

- 1 channel measuring instrument
- Audible alarm sounds if limited value is exceeded
- Continuous display of max/min values
- Hold button to freeze reading
- Backlit display

Testo 925 Thermocouple Thermometer

1 channel, Type K thermometer with audible alarm, battery and calibration protocol

Part Number 0560 9250

Price **£71.40**

Testo 922

- 2 channel measuring instrument
- Line display
- Cyclical printing of readings (with optional printer)
- Continuous display of max/min values
- Hold button to freeze reading
- Backlit display

Testo 922 Differential Thermometer

2 channel, Type K thermometer with battery and calibration protocol

Part Number 0560 9221

Price **£109.00**

Testo 922 HVAC Kit

Includes Testo 922 thermometer, 2 Velcro pipe wrap probes, waterproof immersion probe and carry case

Part Number 300563 9221






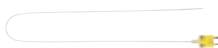


Price **£193.00**







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Technical Data

Probe type	Type K (NiCr-Ni)
Measuring range	-50 to +1,000 °C
Accuracy ±1 digit	±(0.5 °C +0.3% of mv) (-40 to +900 °C) ±(0.7 °C +0.5% of mv) (remaining range)
Resolution	0.1 °C (-50 to +199.9 °C) 1 °C (remaining range)

Probes	Meas. Range	t99	Part Number	Price £
Waterproof immersion / penetration probe, TC Type K 	-60 to +400 °C	7 s	0602 1293	29.20
Fast action waterproof immersion / penetration probe, TC Type K 	-200 to +800 °C	3 s	0602 2693	86.00
Robust air probe, TC Type K 	-60 to +300 °C	25 s	0602 1793	42.10
Waterproof surface probe with widened measurement tip for flat surfaces, TC Type K 	-60 to +400 °C	30 s	0602 1993	42.10
Fast action sprung surface probe, TC Type K 	-60 to +300 °C	3 s	0602 0393	88.60
Flexible immersion probe, TC Type K 	-200 to +1000 °C	5 s	0602 5792	27.80
Clamp probe for pipes 15 to 25mm, TC Type K 	-50 to +100 °C	5 s	0602 4692	46.40
Velcro temperature probes (2 off) 	-50 to +120 °C	90 s	300602 0001	48.00

Wireless Probes	Meas. Range	Part Number	Price £
Wireless radio module, for conversion to use with wireless probes		0554 0188	27.20
Wireless immersion / penetration probe, NTC 	-50 to +275 °C	0613 1001	70.30
Wireless radio handle for plug-in heads 		0554 0189	74.50
Immersion / penetration probe head, Type K, attaches to wireless handle 	-50 to +350 °C	0602 0293	37.70
Surface probe head, attaches to wireless handle 	-50 to +350 °C	0602 0394	48.10

Testo 720

Laboratory / Reference Thermometer



A high accuracy single channel thermometer, ideal for reference use or as a calibration standard against other thermometers.

- A wide range of Pt100 and NTC probes available
- Accurate to ± 0.2 °C
- Optional glass coated probe, resistant to corrosive media
- Optional print out facility
- Audible alarm function
- Continuous display of min/max values
- Hold button
- Backlit display

Testo 720 Reference Thermometer

Testo 720, 1 channel temperature measuring instrument
Pt100 /NTC, with battery and calibration protocol

Part Number 0560 7207

Price £145.00

Technical Data







	Pt100	Type NTC
Probe type	Pt100	Type NTC
Measuring range	-100 to +800 °C	-50 to 150 °C
Accuracy ± 1 digit	$\pm 0.2\%$ of mv (+200 to +800 °C) ± 0.2 °C (remaining range)	± 0.2 °C (-25 to +40 °C) ± 0.3 °C (+40.1 to 80 °C) ± 0.4 °C (+80.1 to +125 °C) ± 0.5 °C (remaining range)
Resolution	0.1 °C	0.1 °C
Sensor type	Pt100	NTC
Battery life	100 hours	

Recommended Set	Part Number	Price £
Testo 720 thermometer	0560 7207	145.00
Waterproof Pt100 immersion / penetration probe	0609 1273	61.70
TopSafe, protects instrument from impact and dirt	0516 0221	18.40
Zip case for instrument and probe	0516 0210	19.80
Total		244.90

Accessories	Part Number	Price £
TopSafe, protects instrument from impact and dirt	0516 0221	18.40
Soft zip case for instrument and probes	0516 0210	19.80
Transportation case for instrument and probes	0516 0201	29.60



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Probes	Meas. Range	t99	Part Number	Price £
Robust waterproof immersion / penetration probe, Pt100 	-50 to +400 °C	12 s	0609 1273	61.70
Robust stainless steel food probe, Pt100 	-50 to +400 °C	10 s	0609 2272	136.00
Waterproof NTC immersion / penetration probe 	-50 to +150 °C	10 s	0613 1212	46.90
Robust waterproof surface probe, Pt100 	-50 to +400 °C	40 s	0609 1973	83.20
Robust air probe, Pt100 	-50 to +400 °C	70 s	0609 1773	71.40
Glass coated probe for corrosive media, Pt100 	-50 to +400 °C	45 s	0609 7072	105.00

Testo 735 Advanced Multi- Channel Thermometer

A high accuracy, precision thermometer with easy to use menu allowing users to take key measurements including time and point mean calculation, differential temperature measurement, complete with max/min and hold functions.

Common features:

- System accuracy up to 0.05 °C
- Connection of up to three attachable probes
- Optional print out facility
- Audible alarm if limits are exceeded
- Display of ΔT , min/max and mean values
- IP 54



Features of the Testo 735-1

- Cyclical printing of readings (with optional printer)

Features of the Testo 735-2

- Instrument store for 10,000 readings
- PC software for data management
- Location memory capability
- Easy access user profiles

Testo 735-1 Multi-Channel Thermometer

Testo 735-1 including battery and calibration protocol

Part Number 0560 7351

Price **£230.00**

Testo 735-2 Multi-Channel Thermometer

Testo 735-2 including PC software, USB cable, battery and calibration protocol

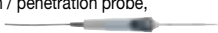

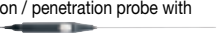

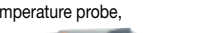
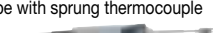
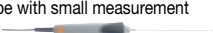
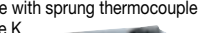

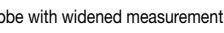
Part Number 0563 7352

Price **£298.00**

Technical Data

Probe type	Pt100	Type K
Measuring range	-200 to +800 °C	-200 to +1,370 °C
Accuracy	±0.2% of mv (-100 to +199.9 °C)	±0.3 °C (-60 to +60 °C)
±1 digit	±0.2% of mv (remaining range)	±0.5% of mv (remaining range)
Resolution	0.05 °C	0.1 °C



Probes	Meas. Range	t99	Part Number	Price £
Robust waterproof immersion / penetration probe, Pt100 	-50 to +400 °C	12 s	0609 1273	61.70
Fast action waterproof immersion probe, Type K 	-60 to +1,000 °C	2 s	0602 0593	71.40
High accuracy immersion / penetration probe with certificate, Pt100 	-40 to +300 °C	60 s	0614 0235	338.00
Robust air probe, Pt100 	-50 to +400 °C	70 s	0609 1773	71.40
Robust waterproof surface temperature probe, Pt100 	-50 to +400 °C	40 s	0609 1973	83.20
Fast action surface probe with sprung thermocouple strip, Type K 	-60 to +300 °C	3 s	0602 0393	88.60
Waterproof surface probe with small measurement head, Type K 	-60 to +1,000 °C	20 s	0602 0693	80.00
Fast action surface probe with sprung thermocouple strip and bent head, Type K 	-60 to +300 °C	3 s	0602 0993	108.00
Velcro pipe wrap probes, Ø 120mm 	-50 to +120 °C	90 s	0628 0020	38.80
Waterproof surface probe with widened measurement tip, Type K 	-60 to +400 °C	30 s	0602 1993	42.10

Accessories	Part Number	Price £
Service case for instrument and probes	0516 0035	61.10
Service case for instrument, probes and accessories	0516 0235	88.30
Testo infrared printer	0554 0547	157.00
Pack of six thermal printer rolls, 10 year legibility	0554 0568	16.40
Pack of six thermal printer rolls	0554 0569	15.10

Testo 950 Reference Precision Instrument

A high precision reference class thermometer for accurate and complex measuring tasks.

- System accuracy up to 0.05 °C
- Resolution of 0.001 °C
- Measures temperature, current / voltage, CO, CO₂ and RPM
- User friendly menu-driven operation
- Full data logging functions with memory for 500,000 readings



Testo 950 Reference Precision Instrument

Testo 950 reference precision instrument including battery and calibration protocol

Part Number 0563 9501

Price **£782.00**







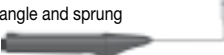




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CONTACT TEMPERATURE MEASUREMENT

Recommended Set	Part Number	Price £
Testo 950 Reference Precision Instrument	0563 9501	782.00
High accuracy immersion / penetration probe including plug-in head and certificate	0614 0240	440.00
Connection cable, 1.5m	0430 0143	37.40
Testo attachable printer	0554 0570	278.00
SoftCase, protects instrument from impact	0516 0401	95.90
SoftCase for attachable printer	0516 0411	32.70
System case for instrument, probes and accessories	0516 0400	165.00
Total		1,831.00

Technical Data			
Probe type	Pt100	Type NTC	Type K
Measuring range	-200 to +800 °C	-40 to +150 °C	-200 to +1,370 °C
Accuracy ±1 digit	±0.1 °C (-49.9 to +99.9 °C) ±0.1 °C +0.1% of mv (remaining range)	±0.2 °C (-10 to +50 °C) ±0.4 °C (-40 to -10.1 °C) ±0.4 °C (+50.1 to +150 °C)	±0.3 °C +0.1% of mv
Resolution	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	0.1 °C (-200 to -1,370 °C)
Sensor type	Pt100	NTC	Type K
Battery life		18 hours	

Probes	Meas. Range	t99	Part Number	Price £
High accuracy air probe for air and gas temperature measurements with bare, mechanically protected sensor, NTC 	-40 to +130 °C	60 s	0610 9714 *	175.00
Standard air probe, Pt100 	-200 to +600 °C	75 s	0604 9773	189.00
Precision air probe, Pt100 	-100 to +400 °C	75 s	0628 0017	329.00
Quick-action immersion / penetration probe for measurements in gases and liquids with a low-mass tip, Type K 	-200 to +600 °C	1 s	0604 9794	189.00
Robust surface probe, Pt100 	-50 to +400 °C	40 s	0604 9973	174.00
Quick-action surface with sprung thermocouple strip, Type K 	-200 to +300 °C	3 s	0604 0194	126.00
Quick-action surface with 90° angle and sprung thermocouple strip, Type K 	-200 to +300 °C	3 s	0604 0994	141.00
Velcro pipe wrap probe, Pt100 	-50 to +150 °C	40 s	0628 0019 *	181.00
Standard immersion / penetration probe, Pt100	-200 to +600 °C	20 s	0604 0274	143.00
High accuracy immersion / penetration probe including plug-in head and certificate, Pt100 	-40 to +300 °C	60 s	0614 0240	440.00
Connection cable, 1.5m			0430 0143	37.40

* Need to be ordered with connection cable 0430 0143.

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Testo Ex-Pt 720

Intrinsically Safe Thermometer



The Testo Ex-Pt 720 is an intrinsically safe thermometer ideal for temperature measurements in hazardous areas to Zone 0.

- High accuracy
- Wide range of probes available
- Custom-designed probes available

Technical Data





Probe type	Pt100
Measuring range	-50 to +400 °C
Accuracy	±0.2% of mv (+200 to +400 °C)
±1 digit	±0.2 °C (-50 to +199.9 °C)
Resolution	0.2 °C (-50 to +199.9 °C) 1 °C (+200 to +400 °C)

Testo Ex-Pt 720

Testo Ex-Pt 720 including holder strap, battery and calibration protocol

Part Number 0560 7236

Price **£389.00**

Probes	Meas. Range	t99	Part Number	Price £
Robust waterproof immersion / penetration probe for Zone 1 and 2 	-50 to +400 °C	12 s	0628 1232	79.60
Robust waterproof surface probe for Zone 1 and 2 	-50 to +400 °C	40 s	0628 1932	103.00
Robust stainless steel immersion / penetration probe for Zone 0, 1 and 2, PUR cable 	-50 to +400 °C	10 s	0628 2232	140.00
Robust stainless steel immersion probe for Zone 0, 1 and 2, FEP cable, 25m 	-50 to +400 °C	15 s	0628 2432	694.00

Accessories	Part Number	Price £
Leather case, including probe holder and positioning clip	0516 0133	£40.30



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CONTACT TEMPERATURE MEASUREMENT

Testo 845

Far-Field and Close Focus Infrared Thermometer



The Testo 845 infrared thermometer has been designed with laser marking, for accurate small diameters, and switchable optics for both far-field and close focus temperature measurement.

- Far-field measurement ratio of 75:1
- Close focus measurements of 1mm diameter spot, distance 70 mm
- Cross-laser marking for accurate long distance measurement
- Adjustable emissivity factor (0.1 to 1.0)
- Connection of external thermocouple probes
- Optical and audible alarm when limit values are exceeded

Technical Data		
Probe type	Infrared	Type K (NiCr-Ni)
Measuring range	-35 to +950 °C	-35 to +950 °C
Accuracy ±1 digit	±2.5 °C (-30 to -20.1 °C) ±1.5 °C (-20 to +19.9 °C) ±0.75 °C (+20 to +99.9 °C) ±0.75% of mv (+100 to +950 °C)	±0.75 °C (-35 to +75 °C) ±1% of mv (+75.1 to +950 °C)
Resolution	0.1 °C	0.1 °C t/d

Testo 845

Testo 845 infrared thermometer including PC software, USB data cable, aluminium transport case, battery and calibration protocol

Part Number 0563 8450

Price **£595.00**

Accessories	Part Number	Price £
Testo fast printer	0554 0549	157.00
Pack of six thermal printer rolls	0554 0569	15.10
Emissivity tape	0554 0051	61.70

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Testo 830

Fast, Versatile Infrared Thermometers with Laser Sighting



Testo's 830 infrared thermometers are the perfect solution for accurate, non-contact temperature measurements in inaccessible, unsafe or static risk environments. Available with 1 point, 2 point or close focus laser sighting, Testo's 830 range is the ideal solution for all your temperature measurement applications.

Common features of the Testo 830 Series:

- Laser sighting - (1 or 2 points)
- Adjustable alarm limits
- Audible and visual alarm if limits are exceeded
- Easy handling thanks to the ergonomic "pistol" design
- Backlit display
- Adjustable emissivity factor (0.2 to 1.0)

Additional advantages of the Testo 830-T2 / T3 / T4

- Exact 2-point sighting
- Connection of external temperature probes

Advantages of the Testo 830-T3

- Close focus optics
- Small measurement point of 2 mm, distance 25 mm

Advantages of the Testo 830-T4

- 30:1 optics for accurate measurement at a greater distance



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Testo 830-T1 - 10:1 optics

Testo 830-T1, infrared thermometer with 1 point laser sighting

Part Number 0560 8301

Price **£103.00**

Testo 830-T2 - 12:1 optics

Infrared thermometer with 12:1 optics and 2 point laser sighting for greater accuracy

Part Number 0560 8302

Price **£141.00**

Testo 830-T2 Set - 12:1 optics

Testo 830-T2 set including Testo 830-T2 thermometer, protective leather case and Type K surface probe

Part Number 0563 8302

Price **£225.00**

Testo 830-T3 - 2:5:1 optics

Infrared thermometer with close focus optics and 2 point laser for measurements down to 2mm in diameter

Part Number 0560 8303

Price **£300.00**

Testo 830-T4 - 30:1 optics

Testo 830-T4, infrared thermometer with 30:1 optics and 2 point laser sighting for accurate measurement at a distance

Part Number 0560 8304

Price **£193.00**

Testo 830-T4 Set - 30:1 optics

Testo 830-T4 set including Testo 830-T4 thermometer, protective leather case and Type K surface probe

Part Number 0563 8304

Price **£288.00**

Technical Data

Probe type	Testo 830-T1		Testo 830-T2		Testo 830-T3		Testo 830-T4	
	Infrared	Infrared	Type K (NiCr-Ni)	Infrared	Type K (NiCr-Ni)	Infrared	Type K (NiCr-Ni)	
Measuring range	-30 to +400 °C		-50 to +500 °C	-25 to +400 °C	-50 to +500 °C	-30 to +400 °C	-50 to +500 °C	
Accuracy ± 1 digit	±1.5 °C or 1.5% of mv (+0.1 to +400 °C) ±2 °C or 2% of mv (-30 to 0 °C) whichever value is the greater		±(0.5 °C ±0.5 % of mv)	±1 °C (-20 to +100 °C) ±2 °C or 2% of mv (remaining range)	±(0.5 °C ±0.5 % of mv)	±1.5 °C (-20 to +0 °C) ±2 °C (-30 to -20.1 °C) ±1 °C or 1% of mv (remaining range)	±0.5 °C or 0.5 % of mv)	
Resolution	0.5 °C	0.5 °C	0.1 °C	0.5 °C	0.1 °C	0.1 °C		
Lens	10:1	12:1	n/a	5:1	n/a	30:1	n/a	

Accessories	Part Number	Price £
Leather protection case, including belt holder	0516 8302	9.80
Emissivity tape	0554 0051	61.70
Fast action surface probe, Type K	0602 0393	88.60



Testo 875 series

Thermal Imaging Cameras



Even the smallest temperature differences can be identified with the Thermal Sensitivity of the Testo Thermal Imaging cameras. The 875 series cameras can be used to discover anomalies and any potential weak points for a wide range of applications such as electrical / mechanical maintenance, HVAC, building surveys, flood restoration, trace & access etc. The Testo 875 is a high-quality thermal imager of the newest generation. It is ideally suited to your professional thermography requirements, and offers many features.

- Large 3.5" display with high resolution image
- Exchangeable wide angle (32°) and telephoto lens
- Thermal sensitivity <math><0.08^{\circ}\text{C}</math>, (80mK)*
- Integrated digital camera, (875 -2)
- Minimum focus distance – 10cm
- Auto Hot / Cold Spot Recognition
- Save up to 1,000 images to SD memory card
- Powerful software with full reporting features

Technical Data

	875-1	875-2
Thermal sensitivity (NETD)		<math><0.08^{\circ}\text{C}</math> at 30 °C (80mK)*
Image display		3.5" LCD with 320 x 240 pixel
Detector type / size		FPA 160 x 120 pixel
Temperature range		-20 to 100 °C 0 to +280 °C (switchable)
Integrated Digital Camera	No	Yes
Storage capacity		1GB (approx 800-1,000 images)
Weight		900g
Dimensions		152 106 x 262 mm



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Product	Testo 875-1	Testo 875-2	Testo 875-2 Professional Set
High quality wide angle lens 32° (as std)	●	●	●
Image refresh rate	9 Hz	9 Hz	9 Hz
Detector 160 x 120 interpolated to 320 x 240 pixels on Display	●	●	●
NETD < 0.08°C, (80mK)* Thermal Sensitivity	●	●	●
Focus Min Focus Distance 10cm	Manual	Manual	Manual
1 GB SD data storage	●	●	●
Capacity to change Lenses	-	●	●
USB cable, Tripod Mounting Plate	●	●	●
Li-ion battery & Mains unit adaptor	●	●	●
Testo IR software	●	●	●
Automatic Hot / Cold spot recognition	●	●	●
Display of surface moisture Distribution (manual input)	-	●	●
Lens protection glass	●	●	●
Integrated digital camera	-	●	●
Telephoto lens	-	●	●
Additional battery	●	●	●
Fast charger	●	●	●
Sunshield	●	●	●

Part Number	0560 8751	0560 8752	0563 8752
Price	£2,595.00	£3,395.00	£4,495.00

● Standard ● Optional – Not available.

*Enhanced thermal sensitivity (80mK) is available from March. Current thermal sensitivity is 110mK.

Testo 881 series

Thermal Imaging Cameras



Thermal imagers convert infrared radiation into electrical signals, and then display this as a thermal image which is a visual display of temperature. With the excellent image quality of the Testo 881, even the smallest temperature differences can be displayed. The Testo 881 series Thermal Imagers quickly and reliably highlight anomalies, and can be used in a wide range of applications. Materials and components are checked non intrusively and problematic areas are detected before a malfunction occurs.

- Large 3.5" display with high resolution image
- Exchangeable wide angle (32°) and telephoto lens
- Thermal sensitivity <math><0.05^{\circ}\text{C}</math>, (50mK)**
- Integrated digital camera, (881-1, 881-3)
- Minimum focus distance – 10cm
- Built-in laser spot locator
- Save up to 1,000 images to SD memory card
- Powerful software with full reporting features

Technical Data

	Testo 881-1	Testo 881-2	Testo 881-3
Thermal sensitivity (NETD)		<math><0.05^{\circ}\text{C}</math> at 30 °C (50mK**)	
Image display		3.5" LCD with 320 x 240 pixel	
Detector type / size		FPA 160 x 120 pixel	
Temperature range		-20 to +100 °C 0 to +350 °C (switchable)	
Integrated Digital Camera	Yes	No	Yes
Storage capacity		1GB (approx 800-1,000 images)	
Weight		900g	
Dimensions		152 x 106 x 262 mm	



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Product	Testo 881-1	Testo 881-2	Testo 881-3	Testo 881-3 Professional Set
High quality wide angle lens 32° (as std)	●	●	●	●
Image refresh rate*	33 Hz	33 Hz	33 Hz	33 Hz
Detector 160 x 120 interpolated to 320 x 240 pixels on Display	●	●	●	●
NETD < 0.05°C, (50mK)** Thermal Sensitivity	●	●	●	●
Focus Min Focus Distance 10cm	Manual	Manual	Manual and Dynamic Motor	Manual and Dynamic Motor
1 GB SD data storage	●	●	●	●
Capacity to change Lenses	-	●	●	●
USB cable, Tripod Mounting Plate	●	●	●	●
Li-ion battery & Mains unit adaptor	●	●	●	●
Testo IR software	●	●	●	●
Automatic Hot / Cold spot recognition	●	●	●	●
Min/Max on Area Calc Isotherm Function on Camera		●	●	●
Display of surface moisture Distribution (manual input)	-	●	●	●
Lens protection glass	●	●	●	●
Integrated digital camera	●	-	●	●
Telephoto lens	-	●	●	●
Additional battery	●	●	●	●
Fast charger	●	●	●	●
Sunshield	●	●	●	●
Integrated LED's	-	-	●	●
Voice Recording	-	●	●	●

Part Number	0563 0881 V1	0563 0881 V2	0563 0881 V3	0563 0881 V4
Price	£4,190.00	£5,150.00	£5,650.00	£6,450.00

*inside EU, 9 Hz outside ● Standard ● Optional – Not available

**33Hz Thermal Imaging cameras can only be supplied to within the EU

**Enhanced thermal sensitivity (50mK) is available from March. Current thermal sensitivity is 80mK.

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Testo Saveris

Wireless Temperature and Humidity Monitoring



Testo Saveris offers an extensive range of radio and Ethernet probes making it a truly flexible temperature and humidity monitoring solution for a wide range of applications. The Saveris software stores data centrally, providing traceability of important quality data.

Applications include:

- Production control
- Building management
- Research laboratories
- Pharmaceutical research and product storage
- Quality assurance
- Facilities maintenance
- Cold storage monitoring
- Food production, processing and storage environments

User-friendly features:

- Automatically measures, documents and issues limit value alarms
- Flexible system set-up with wireless or Ethernet probes – up to 150 probes can be connected
- Data can be accessed via the internet
- Automatic creation of PDF reports
- Easy to install and operate



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Testo Saveris

Wireless Temperature and Humidity Monitoring



Testo Saveris can be configured to monitor data from up to 150 radio and Ethernet probes. For smaller applications the following sets are available:



Saveris Set 1

Set 1: 868 MHz, consisting of base 0572 0120, 3 NTC radio probes without display 0572 1110, mains unit for base 0554 1096 and SBE software 0572 0180 including USB cable

Saveris Set 1	Part Number	Price £
Set 1, 868 MHz	0572 0110	1,186.00

Saveris Set 2

Set 2: 868 MHz, consisting of base 0572 0120, 5 NTC radio probes with display 0572 1120, router 0572 0119, 2 mains units for base and router 0554 1096 and SBE software 0572 0180 including USB cable

Saveris Set 2	Part Number	Price £
Set 2, 868 MHz	0572 0111	1,645.00

Saveris Set 3

Set 3: 868 MHz, consisting of base 0572 0121 including GSM module for SMS alarm, antenna with magnetic base 0554 0524, 5 NTC radio probes with display 0572 1120, router 0572 0119, 2 mains units for base and router 0554 1096 and SBE software 0572 0180 including USB cable

Saveris Set 3	Part Number	Price £
Set 3, 868 MHz	0572 0112	1,921.00

All sets contain everything you need to get started. Additional probes and components can be added. Please see overleaf for full system structure.

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Testo Saveris

System Structure

A Saveris system can be considerably extended offering connection for up to 150 probes.

A diverse combination of components is possible.

The following numeric restrictions apply for several components:

- Number of directly connected radio probes: max. 15
- Number of directly connected Ethernet probes: max. 150
- Number of routers: max. 15 with a max. of 5 probes per router
- Number of converters: max. 10 with a max. of 15 probes per converter

In total a Base Unit can incorporate 150 radio and Ethernet probes or 254 measurement channels.

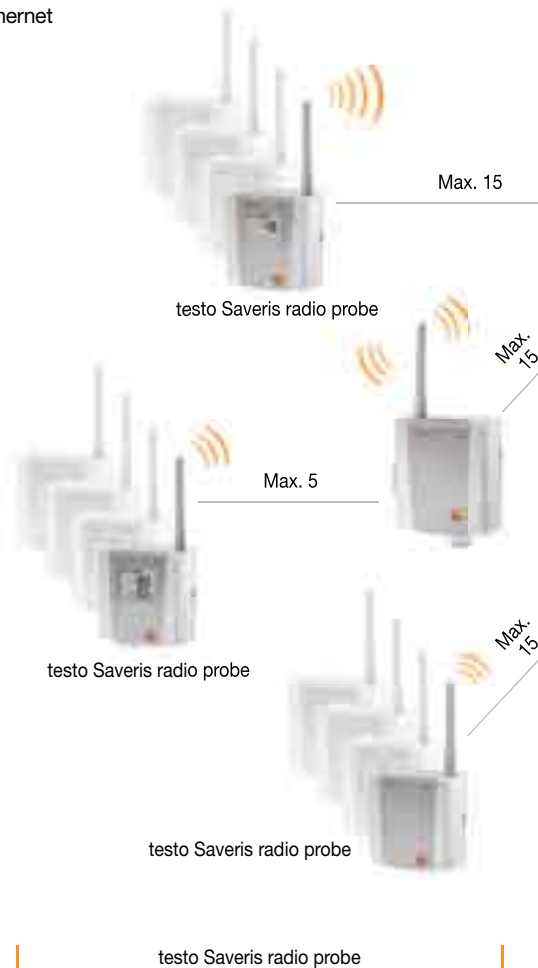
	Part Number	Price £
Analog Coupler U1 Wireless	0572 3110	299.00
Analog Coupler U1E Ethernet	0572 3190	359.00

Radio Probes

	Part Number	Price £
Without Display		
Saveris T1 Int. NTC	0572 1110	138.00
Saveris T2 Ext. TC. Int. NTC	0572 1111	174.00
Saveris T3 2 Ext. TC	0572 9112	239.00
Saveris Pt 1 Ext. Pt 100	0572 7111	239.00
Saveris H3 Int. NTC %rh	0572 6110	285.00
With Display		
Saveris T1 D Int. NTC	0572 1120	174.00
Saveris T2 D Ext. TC. Int. NTC	0572 1121	211.00
Saveris T3 D 2 Ext. TC	0572 9122	276.00
Saveris Pt D 1 Ext. Pt 100	0572 7121	276.00
Saveris H3 D Int. NTC %rh	0572 6120	321.00
Humidity Probe H2D with Fixed Probe	0572 6122	350.00
Humidity Probe H4D for External Probe	0572 6124	246.00

Batteries are included with radio probes.

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Ethernet Probes

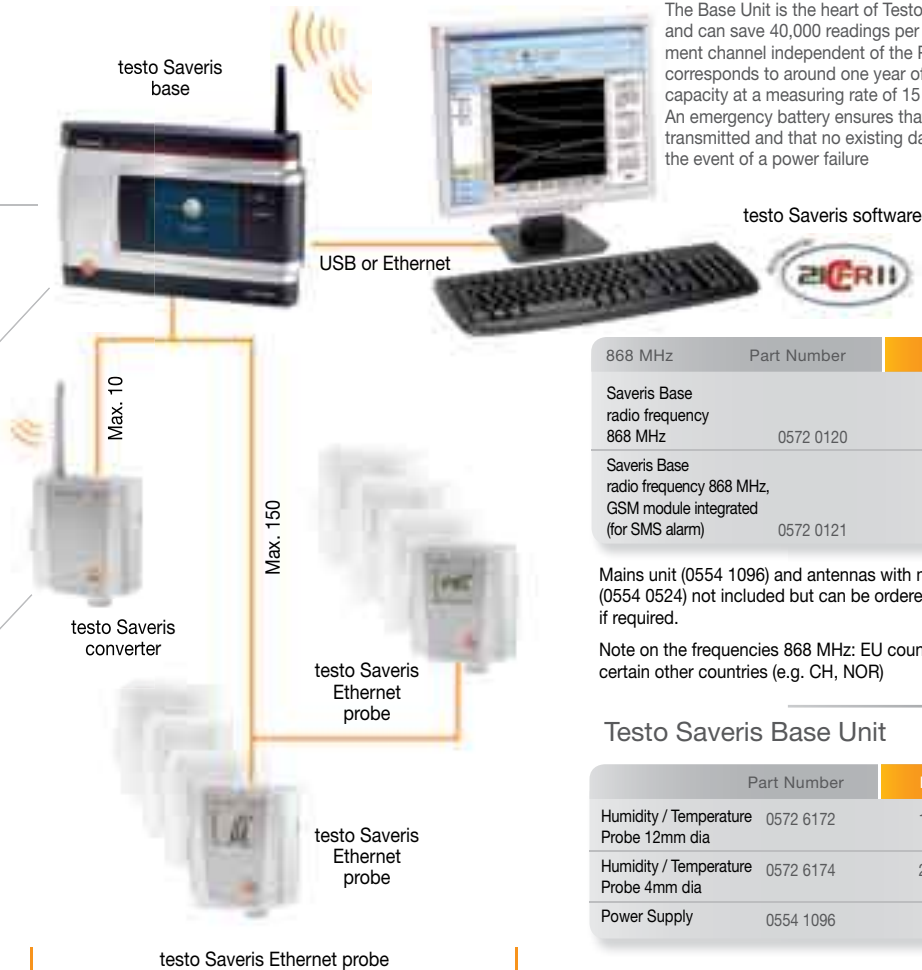
With Display	Part Number	Price £
Saveris Pt E Ext. Pt 100	0572 7191	313.00
Saveris H2 E Ext. NTC $\pm 2\%$ rh	0572 6192	349.00
Saveris T4 E 4 Ext. TC	0572 9194	414.00
Saveris H1 E Ext. NTC $\pm 1\%$ rh	0572 6191	597.00
Humidity Probe H4E	0572 6194	318.00

Saveris Router and Converter

868 MHz	Part Number	Price £
Saveris Router 868 MHz, radio transmission medium	0572 0119	138.00
Saveris Converter 868 MHz, converts the radio transmission medium to Ethernet	0572 0118	267.00

Testo Saveris Base Unit

The Base Unit is the heart of Testo Saveris and can save 40,000 readings per measurement channel independent of the PC. This corresponds to around one year of memory capacity at a measuring rate of 15 minutes. An emergency battery ensures that an alarm is transmitted and that no existing data is lost in the event of a power failure



testo Saveris software

868 MHz	Part Number	Price £
Saveris Base radio frequency 868 MHz	0572 0120	560.00
Saveris Base radio frequency 868 MHz, GSM module integrated (for SMS alarm)	0572 0121	882.00

Mains unit (0554 1096) and antennas with magnetic base (0554 0524) not included but can be ordered separately if required.

Note on the frequencies 868 MHz: EU countries and certain other countries (e.g. CH, NOR)

Testo Saveris Base Unit

	Part Number	Price £
Humidity / Temperature Probe 12mm dia	0572 6172	155.00
Humidity / Temperature Probe 4mm dia	0572 6174	256.00
Power Supply	0554 1096	34.20

Testo 175-S

Current / Voltage Data Logger Range Overview



Testo's current / voltage data loggers guarantee uninterrupted monitoring of current signals.

Product	Testo 175-S1	Testo 175-S2
Description	Current / voltage data logger without display, 1 channel with external terminal block. Supplied with wall holder and calibration protocol	Current / voltage data logger with display, 1 channel with external terminal block. Supplied with wall holder and calibration protocol
Sensor	Built-in screwed contact socket	Built-in screwed contact socket
Display	No	Yes
Measuring range	0 to 1 V / 0 to 10 V 0 to 20 mA / 4 to 20 mA	
Accuracy ±1 digit	±2 mV (0 to 1 V) ±20 mV (1 to 10 V) ±0.05 mA (0 to 20 mA) ±0.05 mA (4 to 20 mA)	
Resolution	1 mV (0 to 1 mV) 10 mV (1 to 10 V) 0.01 mA (0 to 20 mA) 0.01 mA (4 to 20 mA)	
Memory	16,000	16,000
Battery life	Up to 2.5 years	Up to 2.5 years
Part Number	0563 1759	0563 1761
Price	£160.00	£241.00



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Testo 175-T

Temperature Data Logger Range Overview



Testo's temperature data loggers guarantee uninterrupted monitoring of temperatures.

Product	Testo 175-T1	Testo 175-T2	Testo 175-T3
Description	Temperature data logger, 1 channel, internal sensor. Supplied with wall holder and calibration protocol	Temperature data logger, 2 channels; 1 internal sensor, 1 external probe socket. Supplied with wall holder and calibration	Temperature data logger, 2 channels, 2 external probe sockets. Supplied with wall holder and calibration protocol
Sensor	NTC	NTC	Type T or Type K
Display	Yes	Yes	Yes
Measuring range	-35 to +70 °C	-35 to +70 °C (int) -40 to +120 °C (ext)	-50 to +400 °C (Type T) -50 to +1,000 °C (Type K)
Accuracy ±1 digit	±0.5 °C (-20 to +70 °C) ±1 °C (-35 to +20.1 °C)	Internal: ±0.5 °C (-20 to +70 °C) ±1 °C (-35 to +20.1 °C) External: ±0.3 °C (-25 to +70 °C)	Type T: 0.7% of mv (+70.1 to +1,000 °C) ±0.5 °C (-50 to +70 °C) Type K: 0.7% of mv (+70.1 to +1,000 °C) ±0.5 °C (-50 to +70 °C)
Resolution	0.1 °C (-20 to +70 °C) 0.3 °C (-35 to -20.1 °C)	0.1 °C (-20 to +70 °C) (int) 0.1 °C (-25 to +70 °C) (ext) 0.3 ° (remaining range)	0.1 °C
Memory	7,800	16,000	16,000
Battery life	Up to 2.5 years	Up to 2.5 years	Up to 2.5 years
Protection class	IP68	IP68	IP54
Part Number	0563 1754	0563 1755	0563 1756
Price	£91.70	£112.00	£159.00

Testo 177-T

Temperature Data Logger Range Overview for Long-Term Monitoring



Testo's advanced temperature data loggers with larger memory and probe channels.

Product	Testo 177-T1	Testo 177-T2	Testo 177-T3	Testo 177-T4
Description	Temperature data logger, 1 channel, internal sensor. Supplied with wall holder and calibration protocol	Temperature data logger, 1 channel, internal sensor. Supplied with wall holder and calibration	Temperature data logger, 3 channels; 1 internal, 2 external probe sockets and 1 event input. Supplied with wall holder and	Temperature data logger, 4 external thermocouple channels. Supplied with wall holder and calibration protocol
Sensor	NTC	NTC	NTC	Type K, T or J
Display	No	Yes	Yes	Yes
Measuring range	-40 to +70 °C	-40 to +70 °C	-40 to +70 °C (int) -40 to +120 °C (ext)	Type K: -200 to +1,000 °C Type T: -200 to +400 °C Type J: -100 to +750 °C
Accuracy ±1 digit	±0.4 °C (-25 to +70 °C) ±0.8 °C (-40 to +25.1 °C)	±0.4 °C (-25 to +70 °C) ±0.8 °C (-40 to +25.1 °C)	Internal: ±0.4 °C (-25 to +70 °C) ±0.8 °C (-40 to +25.1 °C) External: ±0.2 °C (-25 to +70 °C) ±0.4 °C (remaining range)	±0.5% of mv (+70.1 to +1,000 °C) ±1% of mv (-200 to -100.1 °C) ±0.3 °C (-100 to +70 °C)
Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Memory	48,000	48,000	48,000	48,000
Battery life	Up to 5 years	Up to 5 years	Up to 5 years	Up to 5 years
Protection class	IP68	IP68	IP68	IP43
Part Number	0563 1771	0563 1772	0563 1773	0563 1774
Price	£160.00	£235.00	£268.00	£317.00



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Testo 175-H & 177-H

Humidity / Temperature Data Logger Range Overview



Testo's compact humidity / temperature logger with display, provides you with fast on-site overviews of current readings.

Product	Testo 175-H1	Testo 175-H2	Testo 177-H1
Description	Temperature/humidity data logger, 2 channels, internal sensors. Supplied with wall holder and calibration protocol	Temperature/humidity data logger, 2 channels, internal sensors. Supplied with wall holder and calibration protocol	Temperature/humidity data logger. 4 channels, 3 internal and 1 external probe socket (temperature). Supplied with wall holder and calibration protocol
Sensor	NTC and humidity capacitive sensor	NTC and humidity capacitive sensor	NTC and humidity capacitive sensor
Display	No	Yes	Yes
Measuring range	-10 to +50 °C 0 to 100% rh	-20 to +70 °C 0 to 100% rh	-20 to +70 °C (int) -40 to +120 °C (ext) -40 to +70 °C td 0 to 100% rh
Accuracy ±1 digit	± 0.5 °C ± 3% rh	± 0.5 °C ± 3% rh	System: ± 0.5 °C ± 2% rh Instrument: ± 0.2 °C (-25 to +70 °C) ± 0.4 °C (remaining range)
Resolution	0.1 °C 0.1% rh	0.1 °C 0.1% rh	0.1 °C 0.1% rh 0.1 °C 0.1 °C td
Memory	3,700	16,000	48,000
Battery life	Up to 2.5 years	Up to 2.5 years	Up to 2.5 years
Protection class	–	–	IP54
Part Number	0563 1757	0563 1758	0563 1775
Price	£180.00	£224.00	£410.00

Accessories



Testo 580 Data Collector with USB

Collects the data from your loggers and downloads this to a PC via the connection cable, without the need to remove loggers from their location. Can also be used to stop and re-set the loggers

Part Number 0554 1764

Price **£207.00**



Testo 581 Alarm Signal Output

Allows alarm messages to be sent from Testo data loggers, via infrared connection, to external components. An alarm is triggered when limit values are exceeded, if battery is spent or if the probe is disconnected

Part Number 0554 1769

Price **£146.00**



Testo 575 Logger Control Printer

Infrared printer that prints straight from any Testo product (with print function), without the need for PC connection. Can also be used to stop and re-set data loggers

Testo 575 Fast Printer and Logger Control

Part Number 0554 1775

Price **£303.00**



Comsoft Basic Software for Testo 177/175

Testo Comsoft software enables you to monitor, save and print logger data. Once downloaded, data can be shown in a table or graph format

Description	Part Number	Price £
Testo 175 Basic RS232 Set	0554 1759	72.10
Testo 175 Basic USB Set	0554 1766	98.90
Testo 177 Basic RS 232 Set	0554 1774	71.10
Testo 177 Basic USB Set	0554 1767	103.00

Accessories	Part Number	Price £
RS232 interface for Testo 175 / 177 - without cable	0554 1770	51.80
Wall holder for Testo 177 data logger	0554 1771	11.20



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Testo 512

Differential Pressure and Flow Meter



- Range of 4 instruments offering a choice of flow units and pressure units, including hPa, kPa, psi and inH₂O
- Built-in density compensation
- Hold/max/min function
- Backlit display

NB: 1 hPa = 1 mbar

Technical Data

	Testo 512 0 to 2 hPa		Testo 512 0 to 20 hPa		Testo 512 0 to 200 hPa		Testo 512 0 to 2,000 hPa	
Probe type	Internal Pressure Probe	Pitot Tube	Internal Pressure Probe	Pitot Tube	Internal Pressure Probe	Pitot Tube	Internal Pressure Probe	Without flow, without bar
Measuring range	0 to +2 hPa	+2 to +17.5 m/s	0 to +20 hPa	+5 to +55 m/s	0 to +200 hPa	+10 to +100 m/s	0 to +2,000 hPa	
Resolution	0.001 hPa	0.1 m/s	0.01 hPa	0.1 m/s	0.1 hPa	0.1 m/s	1 hPa	
Overload	±10 hPa		±200 hPa		±2,000 hPa		±4,000 hPa	
Accuracy ±1 digit	0.5% of fsv		0.5% of fsv		0.5% of fsv		0.5% of fsv	

Accessories	Part Number	Price £
TopSafe protection case	0516 0221	18.40
Stainless steel Pitot tube, 350 mm long, Ø 7 mm	0635 2145	102.00
Silicone connection hose, 5 m, max load 700 hPa	0554 0440	34.20
Transport case for measuring instrument and probes	0516 0201	29.60

Testo 512 – 0 to 2 hPa

Part Number 0560 5126

Price **£335.00**

Testo 512 – 0 to 20 hPa

Part Number 0560 5127

Price **£318.00**

Testo 512 – 0 to 200 hPa

Part Number 0560 5128

Price **£309.00**

Testo 512 – 0 to 2,000 hPa

Part Number 0560 5129

Price **£318.00**

Testo 521 and Testo 526

Reference Pressure Meters



Testo's range of differential pressure meters for a wide range of pressure measurement applications.

Product	Testo 521-1	Testo 521-2	Testo 521-3	Testo 526-2
Description	Testo 521-1 differential pressure meter, 0 to 100 hPa, including battery and calibration protocol	Testo 521-2 differential pressure meter, 0 to 100 hPa, including battery and calibration protocol	Testo 521-3 differential pressure meter, 0 to 2.5 hPa, including battery and calibration protocol	Testo 526-2 differential pressure meter, 0 to 2,000 hPa, including fast coupling connections, battery and calibration protocol
Measuring range	0 to 100 hPa	0 to 100 hPa	0 to 2.5 hPa	0 to 2,000 hPa
Accuracy ±1 digit	±0.2% of fsv	±0.1% of fsv	±0.5 Pa (0 to 20 Pa) ±0.5 Pa ±0.5% of mv (20.1 to 250 Pa)	±0.05% of fsv
Resolution	0.01 hPa	0.01 hPa	0.1 hPa	0.1 hPa
Static pressure	2,000 hPa	0 to 2,000 hPa	100 hPa	2,000 hPa
Overload	300 hPa	300 hPa	50 hPa	3,000 hPa
Part Number	0560 5210	0563 5211	0563 5213	0560 5281
Price	£640.00	£826.00	£613.00	£817.00



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Testo 635

High Precision Thermohygrometer

Ideal for measuring air moisture, material equilibrium moisture and pressure dew point in compressed air systems.

Common features:

- Measurement of air humidity, equilibrium humidity and pressure dew point in compressed air systems
- Display of dew point distance; min/max and mean values
- Backlit display

Features of the Testo 635-1

- Cyclical printing of readings (with optional printer)

Features of the Testo 635-2

- Memory up to 10,000 readings
- PC software for data management
- Direct display of material moisture with user defined characteristic curves
- Location memory capability
- Fast access via user profiles
- U-value probe connection option
- Scatter field probe (optional) for material



Testo 635-1 Thermohygrometer

Testo 635-1 with battery and calibration protocol

Part Number 0560 6351

Price **£240.00**

Testo 635-2 Thermohygrometer

Testo 635-2 with PC software, USB cable, battery and calibration protocol

Part Number 0563 6352

Price **£329.00**

Technical Data

Probe type	Type K	NTC (humidity probe)	Testo humidity capacitive sensor
Measuring range	-200 to +1,370 °C	-40 to +150 °C	0 to +100 %rh
Accuracy ±1 digit	±0.3 °C (-60 to +60 °C) ±0.2 °C + 0.3% of mv (remaining range)	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (-40 to -25.1 °C) ±0.4 °C (+75 to +99.9 °C) ±0.5 % of mv (remaining range)	
Resolution	0.1 °C	0.1 °C	0.1 %rh

Recommended Set - Humidity	Part Number	Price £	Recommended Set - Compact Pressure Dew Point to -30 °C	Part Number	Price £
Testo 635-2 thermohygrometer	0563 6352	329.00	Testo 635-2 thermohygrometer	0563 6352	329.00
Testo 635-2 humidity / temperature probe	0636 9735	249.00	Testo 635-2 pressure dew point probe	0636 9835	599.00
Service case for Testo 635 and probes	0516 0035	61.10	Service case for Testo 635 and probes	0516 0035	61.10
Total		639.10	Total		989.10

Accessories	Part Number	Price £
Service case for Testo 635 and probes	0516 0035	61.10
Service case for Testo 635, probes and accessories	0516 0235	88.30
Testo fast printer	0554 0549	157.00
Pack of six thermal printer rolls	0554 0569	15.10
Pack of six thermal printer rolls, 10 year legibility	0554 0568	16.40



Testo 622 & 623

Temperature, Humidity and Barometric Pressure Measurement

Ideal for monitoring ambient conditions in buildings, offices, warehouses, laboratories.



Testo 622 Temperature, Humidity and barometric Pressure Instrument

- Large display showing current measurement values, date and time.
- Adjustable calibration reminder function
- Calibration and adjustment of the measuring instrument possible on site (with additional software)

Part Number 0560 6220

Price **£229.00**

Testo 623 Temperature and Humidity Instrument

- Histogram shows humidity and temperature of the past few days. Overview of up to 12 weeks
- Bars of histogram show mean values of selected time ranges
- Large easy to read display

Part Number 0560 6230

Price **£199.00**

Technical Data

	Temperature	Humidity	Barometric Pressure (622 only)
Measuring range	-10 to +60 °C	0 to 100%RH (non-condensating)	300 to 1200 hPa
Accuracy	±0.4 °C + 1 digit	±2 %RH + 1 digit at 25°C (10 to 90%), ±0.3 hPa + 1 digit	±3 hPa + 1 digit
Resolution	0.1 °C	0.1%RH	0.1 hPa

Testo 616

Material Moisture Measurement

The instrument for measuring material moisture. Fast and damage free measurement of water content in weight percent of woods and building materials such as cement screed, bricks and concrete.

- Fast detection of damp areas and moisture levels
- Non-destructive measurement
- Ideal for monitoring moisture patterns over time
- Easy to read digital backlit display
- Hold/Max/Min function
- Max depth up to 5cm
- Equipped with 10 characteristics curves for various materials.

Testo 616 Material Moisture Meter

Includes Testo 616, battery and calibration protocol

Part Number 0560 6160

Price **£279.00**



Technical Data

Unit	Water content in weight percent in relation to dry mass(%)
Measuring principle	Capacitive measurement
Resolution	0.1%
Measuring ranges	Woods: <50%
Measurement depth	Building materials: <20% Up to 5cm (based on material)



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Testo 650

Reference Humidity Instrument

A precision reference class measuring instrument for a wide range of complex measuring tasks for the following measurement parameters:

- Humidity
- Pressure dew point
- Temperature
- Pressure
- CO₂, rpm, current / voltage



Recommended Set - Reference Humidity	Part Number	Price £
Testo 650 reference humidity instrument	0563 6501	834.00
High accuracy reference humidity / temperature probe, including calibration certificate	0636 9741	493.00
Attachable printer	0554 0570	278.00
SoftCase, protects instrument from impact	0516 0401	95.90
SoftCase for attachable printer	0516 0411	32.70
Humidity probe connection cable	0430 0143	37.40
System case for instrument, probes and accessories	0516 0400	165.00
3 point UKAS humidity calibration	300520 0202	154.00
Total		2,090.00

Recommended Set - Compact Pressure Dew Point to -60 °C	Part Number	Price £
Testo 650 reference humidity instrument	0563 6501	834.00
Precision pressure dew point probe	0636 9841	1,442.00
Attachable printer	0554 0570	278.00
SoftCase, protects instrument from impact	0516 0401	95.90
SoftCase for attachable printer	0516 0411	32.70
Humidity probe connection cable	0430 0143	37.40
System case for instrument, probes and accessories	0516 0400	165.00
Total		2,885.00








Details of further sets and probes are shown overleaf.

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Recommended Set - Compact Pressure Dew Point to -60 °C	Part Number	Price £
Testo 650 reference humidity instrument	0563 6501	834.00
Low pressure probe, up to 10 bar	0638 1741	374.00
High pressure probe, up to 40 bar	0638 1941	373.00
Pressure probe connection cable	0409 0202	85.40
Pipe wrap probe	0600 4593	124.00
Attachable printer	0554 0570	278.00
SoftCase, protects instrument from impact	0516 0401	95.90
SoftCase for attachable printer	0516 0411	32.70
System case for instrument, probes and accessories	0516 0400	165.00
ComSoft 3 Professional data management software	0554 0830	239.00
Total		2,601.00

Recommended Set - Water Value (AW)	Part Number	Price £
Testo 650 reference humidity instrument	0563 6501	834.00
AW value set, including pressure-tight precision humidity probe, measurement chamber and 5 sample bowls	0628 0024	1,079.00
SoftCase, protects instrument from impact	0516 0401	95.90
SoftCase for attachable printer	0516 0411	32.70
Total		2,041.10

Probes	Meas. Range	Part Number	Price £
Standard ambient air probe 	0 to +100 %rh -20 to +70 °C	0636 9740	328.00
High accuracy reference humidity / temperature probe, including calibration certificate 	0 to +100 %rh -20 to +70 °C	0636 9741	493.00
Standard pressure dew point probe 	0 to +100 %rh -30 to +50 °C tpd	0636 9840	1,212.00
Precision pressure dew point probe 	0 to +100 %rh -60 to +50 °C tpd	0636 9841	1,442.00
Robust high temperature / humidity probe 	0 to +100 %rh -20 to +180 °C	0628 0021	901.00
CO ₂ probe for IAQ 	0 to +1 Vol. % CO ₂ 0 to +10,000 ppm	0636 2140	574.00
Thin humidity probe 	0 to +100 %rh -20 to +70 °C	0636 2130	486.00



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Testo 460

Pocket Line Optical rpm Measurement



Innovative pocket sized measurement technology for optical rpm measurement.

- Optical rpm measurement with LED spot marking
- Max/min values

Technical Data

Measuring range	100 to 29,999 rpm
Accuracy	± (0.02 % of m.v.)
± 1 digit	
Resolution	0.1 rpm (100 to 999.9 rpm) 1 rpm (1,000 to 29,999 rpm)

Testo 476

Hand-Held Stroboscope

Hand-held stroboscope measures and checks rotation and vibration motion.

- High luminosity with high performance xenon flash lamp
- Automatic trigger to synchronise flash sequence

Technical Data

Measuring range	+30 to +12,500 rpm
Accuracy	± 0.02 % of m.v.
± 1 digit	
Resolution	1 rpm

Testo 460

Includes wrist strap, belt holder, protective cap, batteries and calibration protocol

Part Number 0560 0460

Price **£123.00**



Testo 476 Stroboscope

Testo 476 including transport case, battery recharger and trigger signal connector

Part Number 0563 4760

Price **£668.00**

Testo 465 & 470 Tachometers



- Saves mean/max value (last reading)
- Non contact rpm measurement
- Optional mechanical / contact rpm measurement (Testo 470 only)

Testo 465 Non Contact Tachometer

Includes plastic case, reflectors and batteries

Part Number 0563 0465

Price **£159.00**

Testo 470 Dual Contact Tachometer

Part Number 0563 0470

Price **£221.00**

Technical Data

Probe type	Optically with mod. light beam	Mechanical – Testo 470 only
Measuring range	+1 to 99,999 rpm	+1 to +19,999 rpm
Accuracy ± 1 digit	± 0.02 % of m.v. (+1 to +99,999 rpm)	± 0.02 % of m.v. (+1 to +19,999 rpm)
Resolution	0.01 rpm (100 to 999.9 rpm) 0.1 rpm (1,000 to 99,999 rpm) 1 rpm (+1000 to + 99,999 rpm)	



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Testo 435

Multi-Function Measuring Instrument for VAC and IAQ

The Testo 435 offers air conditioning engineers, a single instrument that can measure all of the key parameters needed to determine Indoor Air Quality (IAQ) and the efficient installation and maintenance of Ventilation and Air Conditioning (VAC) systems.

Common features of the Testo 435 series:

- Wide selection of probes (see page 31 for details)
- To measure temperature, humidity, velocity, CO, CO₂, differential pressure, turbulence/draughts, light (lux)
- Print out on-site with optional Testo infrared printer



Specific model features:

- Integrated differential pressure measurement (Testo 435-3/-4, not retrofittable)
 - for flow measurement (with Pitot tube)
 - for monitoring filters, room pressures
- Extended instrument function (Testo 435-2/-4, not retrofittable)
 - Instrument store for 10,000 readings (logging capability)
 - PC software for analysing, archiving and documenting measurement data
 - Humidity probes option, for wireless connection
 - Connections for lux and comfort level probes (optional)

Please see pages 38, 39 for Testo 435 Kits

Base Instruments				
Model	Testo 435-1	Testo 435-2	Testo 435-3	Testo 435-4
Additional Features			Integrated Differential Pressure Measurement	Integrated Differential Pressure Measurement
		Data Logging		Data Logging
	Includes battery and calibration protocol	Includes readings memory, PC software, USB cable, battery	Includes built-in differential pressure, battery and calibration protocol	Includes built-in differential pressure, readings memory, PC software, USB cable, battery and calibration protocol
Part Number	0560 4351	0563 4352	0560 4353	0563 4354
Price	£348.00	£430.00	£541.00	£626.00

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Testo 435 continued

Testo 435-2 IAQ Kit 1

Measures/Logs Temperature, Humidity & CO₂
Includes PC software, USB cable, battery,
calibration protocol, transport case & IAQ probe

Part Number 300563 4358

Price **£1,041.00**

Testo 435-2 IAQ Kit 2

Measures/Logs Temperature, Humidity,
CO₂ & CO
Includes PC software, USB cable, battery,
calibration protocol, transport case, IAQ probe
& CO ambient probe

Part Number 300563 4359

Price **£1,367.00**

Testo 435-4 IAQ Kit

Measures/Logs Temperature, Humidity, CO₂,
Absolute Pressure, Differential Pressure and
Velocity (with optional Pitot tube)

Part Number 300563 4354

Price **£1,241.00**

0632 1535



0635 1535

0635 2045

0635 9335

0635 9535



Technical Data

	Testo 435-1/-2/-3/-4					Testo 435-3/-4	
Probe Type	NTC	Type K (NiCr-Ni)	Testo capacitive humidity sensor	Vane	CO ₂ (IAQ probe)	Absolute pressure probe	Differential pressure probe, internal
Measuring Range	-40 to +150 °C	-200 to +1,370 °C	0 to +100 %rh	0 to +60 m/s	0 to +10,000 ppm CO ₂	0 to +2,000 mbar	0 to +25 mbar
Accuracy ± 1 digit	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (-40 to -25.1 °C) ±0.4 °C (+75 to +99.9 °C) ±0.5% of mv (remaining range)	±0.3 °C (-60 to +60 °C) ±0.5% of mv (remaining range)	± 2% RH (+2 to +95%RH)		(± 50 ppm CO, ± 2% of mv) - 0 to 5,000 ppm (± 100 ppm CO, ± 3% of mv) + 5001 to 10,000 ppm CO ₂		±0.02 mbar (0 to +2 mbar) 1% of mv (remaining range)
Resolution	0.1 °C	0.1 °C	0.1 %rh	0.01	1 ppm	0.1 mbar	0.01 mbar



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Testo 435-2 VAC Kit

Measures/Logs Temperature, Humidity, Velocity (vane & hot wire probe)
Includes PC software, USB cable, battery, calibration protocol, transport case, 100mm vane probe and 3 function thermal probe

Part Number 300563 4356

Price **£1,142.00**

0628 0109



0635 1025

0636 9735

0602 0393



0635 0545



Testo 435-4 VAC Kit

Measures/Logs Temperature, Humidity, Velocity (vane probe or with optional Pitot tube), Absolute Pressure and Differential Pressure

Part Number 300563 4355


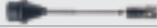



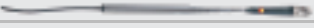
Price **£1,470.00**

Testo 435-2 Kitchen VAC Kit

Measures/Logs Temperature, Humidity, CO₂ & Velocity
Includes PC software, USB cable, battery, calibration protocol, transport case, IAQ probe and 3 function thermal probe

Part Number 300563 4357

Price **£1,462.00**

Accessories		Part Number	Price £
Wireless radio module		0554 0188	27.20
Wireless radio handle for plug-in heads, including T/C adapter		0554 0189	74.50
Thermocouple probe head, attachable to wireless handle		0602 0394	48.10
Humidity probe head, attachable to wireless handle		0636 9736	138.00
Humidity/temperature probe		0636 9735	249.00
Indoor air quality probe		0632 1535	550.00
Vane measurement probe, 16mm		0635 9535	337.00
Vane measurement probe, 60mm		0635 9335	339.00
Vane measurement probe, 100mm		0635 9435	231.00
Comfort level probe		0628 0109	592.00
Lux probe		0635 0545	278.00

Testo 400

Reference Instrument for VAC



A precision reference class measuring instrument for a wide range of complex measuring tasks for VAC applications.

- System accuracy up to 0.05 °C, resolution of 0.001 °C
- VAC module included as standard
- Density calculation for velocity measurement with reference to temperature, humidity and absolute pressure
- Memory storage of 500,000 readings

Testo 400 VAC Reference Instrument

Testo 400 including battery, Li-cell and calibration protocol

Part Number 0563 4001

Price **£1,071.00**



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Testo 400 VAC Kit

Testo 400 including ComSoft professional data management software with VAC module, RS232 connection cable, adjustable vane probe, Ø 100mm, vane probe, Ø 16mm, telescopic handle, attachable printer, SoftCase for both instrument and printer and system case for instrument, probes and accessories

Part Number 300563 4004


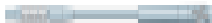








Price **£4,230.00**

Testo 400 Clean Rooms Kit

Testo 400 including ComSoft professional data management software, RS232 connection cable, precision pressure probe 100 Pa, precision air probe, high accuracy reference temperature / humidity probe, quick-action hot wire probe, adjustable vane probe, Ø 100mm, telescopic handle, probe connection cables, current / voltage cable and system case for instrument, probes and accessories

Part Number 300563 4006

Price **£4,450.00**

Probes	Meas. Range	Part Number	Price £
Vane probe, Ø 12mm 	+0.6 to +20 m/s	0635 9443	660.00
Vane probe, Ø 16mm 	+0.4 to +60 m/s	0635 9540	707.00
Vane probe, Ø 25mm 	+0.4 to +60 m/s	0635 9640	648.00
Adjustable vane probe, Ø 60mm 	+0.25 to +20 m/s	0635 9440	449.00
Adjustable vane probe, Ø 100mm 	+0.1 to +15 m/s	0635 9340	509.00
High temperature vane probe, Ø 25mm 	+0.6 to +20 m/s	0635 6045	2,589.00
Telescopic handle for adjustable and high temperature vane probes		0430 0941	245.00
Robust hot bulb probe with telescopic handle, Ø 3mm 	0 to +10 m/s -20 to +70 °C	0635 1049	510.00
Quick-action hot wire probe with telescopic handle, Ø 10mm 	0 to +10 m/s -20 to +70 °C	0635 1041	514.00
Thermal anemometer with telescopic handle, Ø 10mm 	0 to +5 m/s 0 to +50 °C	0635 1047	491.00
2-function probe for simultaneous measurement of temperature, humidity and velocity 	0 to +10 m/s 0 to +100 %rh -20 to +70 °C	0635 1540	661.00

Testo 815 and Testo 816

Sound Level Measurement



Testo 815

Sound Level Measurement – To DIN/IEC 60651, Class 2

- High accuracy (Class 2 to IEC 60651)
- Easy to adjust (adjustment screwdriver included)
- Frequency weighting in accordance with characteristic curve A and C
- Maximum and minimum value memory
- Built-in tripod knuckle screw (1/4 inch)
- Switchable time weighting Fast/Slow

Part Number 0563 8155

Price £210.00



Testo 816 - Additional features to 815 specification

Sound Level Measurement – To DIN/IEC 60651, Class 2

- Automatic range switchover
- Backlit display
- Mains unit connection
- Bar graph display
- AC output for connecting recorders and amplifiers
- DC output with 10 mV/dB for connecting recorders or data loggers

Part Number 0563 8165

Price £424.00

Technical Data

	Testo 815	Testo 816
Measuring range	+32 to +130 dB	+30 to +130 dB
Accuracy ± 1 digit	Class 2 ±1.0 dB	Class 2 ±1.0 dB
Resolution	0.1 dB	0.1 dB

Accessories

Sound Level Calibrator

Suitable for Testo 815 and Testo 816 and ½ and 1 inch microphones by other manufacturers.

Part Number

0554 0452

Price £

313.00



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Emissions Analysers



Testo's range for emissions analysers is tailored especially towards industrial emissions requirements:

- High accuracy
- Long-term measurements
- For stack analysis, every measuring range is covered
- Robust and rugged, designed for the toughest conditions

The **Testo 335** is a highly versatile gas analyser for measuring emissions from industrial combustion systems such as stationary engines, power plants and many more process applications. The **Testo 335** is a great tool for servicing all types of industrial boilers and burner systems operating on virtually any type of fuel.

The **Testo 350XL** is a flexible, portable measuring system for a broad range of combustion applications. The **Testo 350XL** incorporates the latest technology making it easy to operate, accurate and reliable when measuring O₂, CO, NO, NO₂, SO₂, H₂S, C_xH_y and CO₂.

The **Testo 350 Maritime** is the portable analyser with type approval for NO_x measurements, compliant with MARPOL.

New for 2010

Testo 350 is now MCERTS approved as a portable emissions monitoring system for O₂, CO₂, CO, NO, NO₂ and SO₂.

Testo 340 – Low cost 4 gas analyser for industrial combustion, engine testing and process applications*.

*Available from April



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Stationary Measuring Instruments



Ongoing monitoring of conditions such as humidity, trace humidity, pressure dew point and differential pressure are essential in many industrial, pharmaceutical and scientific environments to maintain process stability and product quality.

To meet these demands Testo produces a range of stationary instruments, transmitters and process displays that offer a high level of accuracy and reliability. This range includes:

- **Testo Hygrotest family of humidity and temperature transmitters** – suitable for environments where stable measurement and control of humidity and temperature are required.
- **Testo 6740** – efficiently measuring pressure dew point in compressed air or dry air / gas to increase safety and cut costs.
- **Testo 6440 compressed air flow meter** – enabling businesses to accurately monitor compressed air usage to assist in cost management and resource allocation.
- **Testo 6340 family of differential pressure transmitters** – high stability for continuous measurement and control of low differential pressures.



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Instrument Service & Calibration

Testo have a fully equipped service, calibration and repair centre run by an experienced team who are dedicated to offering a premier service.

Our UKAS (ISO/IEC 17025:2005) accredited laboratory is equipped to provide calibration for:

UKAS calibration

- Temperature in the range of -70 to 180°C
- Humidity from 10 to 90%rh in the range of -0.5 to 50.5°C
- Dew point/frost point in the range -25 to 47°C

Our laboratory is equipped to provide calibration traceable to national standards for:

ISO calibration

- Pressure – 0 to 70 barg, low pressure -20 to +20hpa (in air)
- Gas Analysis – O₂, CO, NO, NO₂, HC, SO₂ & CO₂
- Air velocity – 0 to 20m/s (thermal sensors), 0.4 to 60m/s (vane)
- Lux – 2 to 17000 lux
- Sound level – +30 to 130dB
- Current – 4 to 20mA
- Voltage – 0 to 10V
- Thermocouple injection – types K, T, J, N, R, S
- Resistance simulation – 4 wire, 2-3 wire
- RPM – 0 to 9,900 RPM

On-site services

- Calibration of our Saveris systems, domestic Flue Gas Analysers and Environmental Equipment.

Saveris – Temperature and humidity data logging system made by Testo.

Our dedicated service team provide an initial on site survey to confirm location of monitoring points and full system requirements. Thereafter we provide system installation and set up and system training if required. To compliment this, calibration of the system, either UKAS or ISO certification, can be provided. Calibration can be carried out in our laboratory or on site to avoid downtime.



Instrument Repair Service

We provide a comprehensive repair service for instruments within the Testo range.

Find Out More

For further information or a no-obligation quotation please call us on 01420 544 433, option 235 or email service@testo.co.uk

Pick up and return service also available. Please call for further details.

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Air, penetration, IR and immersion probes + data loggers	Part Number	Price £
ISO Calibration (-18 °C)	300520 0056	31.90
ISO Calibration (+60 °C)	300520 0048	31.90
ISO Calibration (+120 °C)	300520 0052	31.90
ISO Calibration (-18, 0 °C)	300520 0044	43.00
ISO Calibration (0, +60 °C)	300520 0072	43.00
ISO Calibration (-18, 0, +60 °C)	300520 0042	53.90
ISO Calibration (0, +50, +100 °C)	300520 0082	53.90

Surface probes	Part Number	Price £
ISO Surface Calibration (+60, +120, +180 °C)	300520 0038	71.50

Immersion and penetration probes only	Part Number	Price £
UKAS Calibration (-18, 0, +60 °C)	300520 0212	94.00
UKAS Calibration (0, +50, +100 °C)	300520 0214	94.00

Humidity indicators	Part Number	Price £
ISO humidity calibration (11.3/75.3 %rh at 25 °C)	300520 0058	73.00
ISO humidity calibration (11.3/45.3/75.3 %rh at 25 °C)	300520 0078	96.00
UKAS humidity calibration (11.3/75.3 %rh at 25 °C)	300520 0200	110.00
UKAS humidity calibration (11.3/45.3/75.3 %rh at 25 °C)	300520 0202	154.00

Pressure meters (70 bar max)	Part Number	Price £
ISO pressure calibration	300520 0018	57.80

Air velocity (0.4 to 32.5 m/s)	Part Number	Price £
ISO air velocity (2 points across range)	300520 0010	41.80
ISO air velocity (5 points across range)	300520 0012	64.00

Light meters	Part Number	Price £
ISO light calibration (3 points)	300520 0108	33.00
ISO light calibration (5 points)	300520 0110	55.00

Tachometers (6,000 rpm max mechanical/9,900 rpm max optical devices)	Part Number	Price £
ISO rpm calibration (5 points)	300520 0100	60.50

Sound	Part Number	Price £
Sound level meters	300520 0104	68.80
Sound level calibrators	300520 0106	29.00

Pick up and return service is also available. Call our Service department to find out more details.



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Testo

- World Class Instrumentation



Testo is a world leader in the development and manufacture of high quality measurement instruments, with over 50 years of experience.

Testo offers an extensive range of instruments including:

- Thermometers
- Humidity meters
- Flue gas and emissions analysers
- Pressure meters
- Airflow meters
- Data loggers
- Thermal Imaging
- Refrigeration

Testo instruments are developed in co-operation with professionals working in the field, resulting in user friendly, reliable instruments. We have confidence in the quality of our products and prove this with up to 5 years warranty on our instruments.

Service and Calibration

With an experienced team, Testo run an independently accredited ISO 9001:2008 and ISO 17025 laboratory, committed to meeting our customers' repair, servicing and calibration needs. With UKAS accreditation to ISO 17025, Testo offer an independent calibration service for most makes and models of humidity, dew point and temperature measuring instruments.

Further details on our full range of instruments can be found in our other A5 brochures:

- HVAC/R
- Dataloggers
- Food Hygiene Monitoring



How to Order

Ordering couldn't be simpler!

Testo instruments can be purchased directly from Testo, or from authorised Testo distributors.

testo Ltd.
Newman Lane
Alton, Hants,
GU34 2QJ

Tel: 01420 544 433

Fax: 01420 544 434

Email: info@testo.co.uk

Internet: www.testo.co.uk

Webshop: www.testodirect.co.uk

Prices are valid until 31st December 2010 and exclude VAT and carriage. Discounts available for large quantity, please contact our Internal Sales Department for further details.

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