

testo 96

Highly accurate reference measuring instrument

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

testo 950 includes the basic parameters temperature, CO₂, rpm, current and voltage. testo 950 can be upgraded to the multi-function measuring instrument, testo 400.

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

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

testo 950, reference temperature meas. instr., with battery, Li cell and calibration protocol

Part no.

6396



Attachable printer
Readings are printed on site in seconds

Clear graphics display

Data communication with PC
Barcode reader

3 user defined function buttons

Saves or prints at the touch of a button

User-friendly operation with cursor

Mains connection/quick battery recharging

2 user defined probe sockets, automatic recognition of all connected probes

Recommended set

Precision measuring instrument with up to μ C system accuracy

- testo 950, reference temperature meas. instr., with battery, Li cell and calibration protocol, 2 channel instrument (thermocouple, Pt100, NTC) with option of connecting CO, CO₂, rpm and mV/mA transmitter (Part no. 0563 9501)
- Highly accurate immersion/penetration probe incl. certificate, Plug-in head, connection cable 0430 0143 or 0430 0145 required (Part no. 0614 0240)
- Cable, 1.5 m long, connects probe with plug-in head to meas. instrument, PUR coating material (Part no. 0430 0143)
- Attachable printer (securely attached) including 1 roll of thermal paper and batteries, Quickly prints readings on location (Part no. 0554 0570)
- System case (plastic) for measuring instrument, probes and accessories, Probes in lid make it easy to find parts in case (Part no. 0516 0400)

We recommend:

5 point adjustment for 0614 0235 probe, incl. ISO certificate at -40, 0, +100, +200, +300 °C 0520 0142

5 point calibration for 0614 0235 probe, incl. DDK certificate at -40, 0, +100, +200, +300 °C 0520 0241

ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) 0554 0830

RS232 cable, Connects instrument to PC (1.8 m) for data transfer 0409 0178

Recommended set

Data management

- Memory upgrade to 500,000 readings, Upgrades memory capacity (by Service) (Part no. 0554 9481)
- ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) (Part no. 0554 0830)
- RS232 cable, Connects instrument to PC (1.8 m) for data transfer (Part no. 0409 0178)
- Barcode reader to read in measurement locations, Quick and accurate allocation of reading to site (Part no. 0554 0460)
- Barcode labels, self-adhesive (1200 off), for labelling site with barcode, printing via software (Part no. 0554 0411)

testo 950
Zubehör / Technische Daten

Zubehör	Best.-Nr.	EUR
Transport und Schutz		
SoftCase für Messgerät (Stoß-Schutz) inkl. Trageriemen, Magnethalterung und Fühlerhalterung, Schutz gegen Stöße und Herunterfallen	0516 0401	84.00
SoftCase für aufsteckbaren Drucker (Schmutz-/Stoß-Schutz), Schutz gegen Stöße und Herunterfallen	0516 0411	40.00
Transport-Koffer (Kunststoff) für Messgerät, Fühler/Sonden, zur sicheren und übersichtlichen Aufbewahrung	0516 0300	58.00
System-Koffer (Kunststoff) für Messgerät, Fühler/Sonden und Zubehör, übersichtlicher Kofferinhalt durch Platzieren der Fühler im Deckel	0516 0400	144.00
System-Koffer (Aluminium) für Messgerät, Fühler/Sonden und Zubehör, übersichtlicher Kofferinhalt durch Platzieren der Fühler im Deckel	0516 0410	223.00
Drucker und Zubehör		
Aufsteckbarer Drucker (verliersicher mit Gerät verbunden) inkl. 1 Rolle Thermopapier und Batterien, für schnellen Messwertausdruck vor Ort	0554 0570	343.00
Testo-Protokolldrucker mit kabelloser IRDA- und Infrarot-Schnittstelle, 1 Rolle Thermopapier und 4 Mignon-Batterien	0554 0547	185.00
Schnelldrucker testo 575, inkl. 1 Rolle Thermopapier und Batterien, infrarotgesteuerter Thermo-Liniendrucker mit Grafikfunktion	0554 1775	325.00
Externes Ladegerät inkl. 4 Ni-MH Akkus mit integriertem, internationalem Netzstecker – 100-240 V, 300 mA, 50/60 Hz, 12 VA/Gerät	0554 0610	39.00
Ersatz-Thermopapier für Drucker (6 Rollen)	0554 0569	16.00
Ersatz-Thermopapier für Drucker (6 Rollen), langzeit-lesbare Messdatendokumentation bis zu 10 Jahren	0554 0568	18.00
Etiketten-Thermopapier (Testo-patentiert) für Drucker testo 575 (6 Rollen) zum direkten Aufkleben	0554 0561	30.00
Weiteres Zubehör und Ersatzteile		
Aufrüstung Massenspeicher auf 500.000 Messwerte, nachträgliche Aufrüstung der Speicherkapazität (durch Service)	0554 9481	368.00
Akku-Set für Messgerät (4 Stück Akku 2.4 V/700 mAh)	0554 0196	30.00
Netzteil 230 V/ 8 V/ 1 A, für Messgerät (Eurostecker)	0554 1084	36.00
Autoladeadapter, messbereit durch Akkuladen im Auto, Laden der Akkus während der Fahrt im Auto	0554 0424	21.00
Ersatz-Li-Zelle zur Sicherung der RAM-Daten, bei Batterie- und Akkuwechsel	0515 0028	2.50
Update		
Modul Feuchte/Druck, nachträgliche Aufrüstung durch Service (Update von testo 950 auf testo 650)	0450 4002	234.00
Modul Strömung, inkl. Volumenstrom, Turbulenzgrad..., nachträgliche Aufrüstung durch Service (Update von testo 650 auf testo 400)	0450 4003	300.00
Barcode und Zubehör		
Barcode-Lesestift zum Einlesen der Messstellen, schnelle und sichere Zuordnung von Messwert zu Messort	0554 0460	349.00
Barcode-Etiketten, selbstklebend (1200 Stück), zur Kennzeichnung des Messortes mit Barcode, Bedruckung über die Software.	0554 0411	35.00
Klebetaschen (50 Stück) für Ausdruck, Papier-Barcode-Labels, ...	0554 0116	45.00
Software und Zubehör		
ComSoft 3 - Professional mit Messdatenverwaltung, inkl. Datenbank, Auswerte- und Grafikfunktion, Datenanalyse, Trendkurve (ohne Interface)	0554 0830	242.00
Leitung RS232, Verbindungsleitung Messgerät - PC (1,8 m) zur Datenübertragung	0409 0178	34.00
Ethernet-Adapter, RS 232 - Ethernet inkl. Softwaretreiber, Netzteil, ermöglicht Datenkommunikation im Netzwerk	0554 1711	330.00
Galvanische Trennung für RS232 (Verbindung Messgerät - PC)	0554 0006	218.00
Kalibrier-Zertifikate		
ISO-Kalibrier-Zertifikat Temperatur, für Luft-/Tauchfühler, Kalibrierpunkte -18 °C; 0 °C; +60 °C	0520 0001	80.00
ISO-Kalibrier-Zertifikat Temperatur, Messgeräte mit Luft-/Tauchfühler; Kalibrierpunkte 0 °C; +150 °C; +300 °C	0520 0021	90.00
ISO-Kalibrier-Zertifikat Temperatur, Messgeräte mit Oberflächenfühler; Kalibrierpunkte +60 °C; +120 °C; +180 °C	0520 0071	100.00
DKD-Kalibrier-Zertifikat Temperatur, Messgeräte mit Luft-/Tauchfühler; Kalibrierpunkte -20 °C; 0 °C; +60 °C	0520 0211	280.00
DKD-Kalibrier-Zertifikat Temperatur, Oberflächentemperaturfühler berührend; Kalibrierpunkte +100 °C; +200 °C; +300 °C	0520 0271	380.00

Für testo 950 sind ISO-/DKD-Kalibrier-Zertifikate an frei wählbaren Punkten innerhalb des Messbereiches möglich. Preise auf Anfrage.

Technische Daten			
Fühlertyp	Pt100	NTC	Typ K (NiCr-Ni)
Messbereich	-200 ... +800 °C	-40 ... +150 °C	-200 ... +1370 °C
Genauigkeit ±1 Digit	±0.1 °C (-49.9 ... +99.9 °C) ±0.4 °C (-99.9 ... -50 °C) ±0.4 °C (+100 ... +199.9 °C) ±1 °C (-200 ... -100 °C) ±1 °C (+200 ... +800 °C)	±0.2 °C (-10 ... +50 °C) ±0.4 °C (-40 ... -10.1 °C) ±0.4 °C (+50.1 ... +150 °C)	±0.4 °C (-100 ... +200 °C) ±1 °C (-200 ... -100.1 °C) ±1 °C (+200.1 ... +1370 °C)
Auflösung	0.01 °C (-99.9 ... +300 °C) 0.1 °C (-200 ... -100 °C) 0.1 °C (+300.1 ... +800 °C)	0.1 °C (-40 ... +150 °C)	0.1 °C (-200 ... +1370 °C)

Fühlertyp	Typ S (Pt10Rh-Pt)	Typ J (Fe-CuNi)
Messbereich	0 ... +1760 °C	-200 ... +1000 °C
Genauigkeit ±1 Digit	±1 °C (0 ... +1760 °C)	±0.4 °C (-150 ... +150 °C) ±1 °C (-200 ... -150.1 °C) ±1 °C (+150.1 ... +1000 °C)
Auflösung	1 °C (0 ... +1760 °C)	0.1 °C (-200 ... +1000 °C)

Fühlertyp	CO ₂ -Fühler	CO-Fühler	mechanisch
Messbereich	0 ... +1 Vol. % CO ₂ 0 ... +10000 ppm CO ₂	0 ... +500 ppm CO	20 ... 20000 U/min
Genauigkeit ±1 Digit	Siehe Fühlerdaten	±5% v.Mw. (0 ... +500 ppm CO)	20 ... 20000 U/min
Auflösung			1 U/min (20 ... 20000 U/min)

Fühlertyp	Strommessung	Spannungsmessung
Messbereich	0 ... +20 mA	0 ... +10 V
Genauigkeit ±1 Digit	±0.04 mA (0 ... +20 mA)	±0.01 V (0 ... +10 V)
Auflösung	0.01 mA (0 ... +20 mA)	0.01 V (0 ... +10 V)

Betriebstemp.	0 ... +50 °C	Speicherplatz Grundversion: 128 kB entspricht ca. 45.000 Messwerten Speicherplatz erweitert: 1 MB, entspricht ca. 500.000 Messwerten Sonstiges: Automatische Erkennung aller angeschlossenen Fühler Stromversorgung: Batterie/Akku, alternativ 8V-Netzteil Batteriestandzeit im Dauerbetrieb mit 2 TE-Fühlern
Lagertemp.	-25 ... +60 °C	
Anzeige	LCD 4-zeilig	
Batterietyp	1,5 V AA	
Standzeit	18 h	
Gewicht	500 g	
PC	RS232-Schnittstelle	
Gehäusematerial	ABS	
Garantie	3 Jahre	

Probes Type K (NiCr-Ni)	Illustration	Meas. range	Accuracy	t ₉₅	Part no.
Super quick-action immersion/penetration probe for measurements in gases and liquids with a low-mass tip	 Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 to +600 °C	Class 1	1 s	0604 9794 0614 9794
Thermocouple, made of fibre-glass insulated thermal pipes, pack of 5	 Please order adapter 0600 1693	-200 to +400 °C	Class 1	5 s	0644 1109
Quick-action surface probe with sprung thermocouple strip, measuring range short-term to +500°C	 Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 to +300 °C	Class 2	3 s	0604 0194 0614 0194
Super quick-action surface probe, probe tip at 90° angle, with sprung thermocouple strip	 Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 to +300 °C	Class 2	3 s	0604 0994
Robust surface probe	 Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 to +600 °C	Class 1	25 s	0604 9993 0614 9993
Robust surface probe, at 90° angle, suitable for inaccessible places	 Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 to +600 °C	Class 1	25 s	0604 9893 0614 9893
Robust surface probe with sprung thermocouple strip for high temperature range up to +700°C	 Conn.: Fixed cable, coiled	-200 to +700 °C	Class 2	3 s	0600 0394
Roller surface probe for measurements on rollers and rotating drums, max. circumferential velocity 18 to 400m/min	 Conn.: Fixed cable, coiled	-50 to +240 °C	Class 2		0600 5093
Magnetic probe, adhesive power approx. 20 N, with magnets, for measurements on metal surfaces	 Conn.: Fixed cable	-50 to +170 °C	Class 2		0600 4793
Magnetic probe, adhesive power approx. 10 N, with magnets, for higher temperatures, measures on metal surfaces	 Conn.: Fixed cable	-50 to +400 °C	Class 2		0600 4893
Miniature surface probe for measurements on electronic components, small motors...	 Conn.: Fixed cable	-200 to +400 °C	Class 2	3 s	0600 1494
Adhesive thermocouple, pack of 2, carrier material: aluminium foil Is fixed at the measuring point using conventional adhesives or silicone heat paste 0554 0004	 Diameter extension 2 x 0.2 mm, 0.1 mm thick	-200 to +200 °C	Class 1		0644 1607
Fast response immersion/penetration probe	 Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 to +400 °C	Class 1	3 s	0604 0293 0614 0293
Super quick-action immersion/penetration probe for measurements in liquids	 Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 to +600 °C	Class 1	1 s	0604 0493 0614 0493
Super quick-action immersion/penetration probe for high temperatures	 Conn.: Plug-in head. connection cable 0430 0143 or 0430 0145 required	-200 to +1100 °C	Class 1	1 s	0604 0593 0614 0593
Robust immersion/penetration probe made of V4A stainless steel, waterproof and oven-proof, e.g. for the food sector	 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	 Conn.: Fixed cable	-200 to +1250 °C	Class 1	60 s	0600 5993
Pipe wrap probe for pipes with diameter of up to 2", for flow/return temp. meas. in hydronic systems	 Conn.: Fixed cable	-60 to +130 °C	Class 2	5 s	0600 4593
Spare meas. head for pipe wrap probe	 35 mm	-60 to +130 °C	Class 2	5 s	0602 0092

*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






testo 950
Suitable probes at a glance

Probes Type K (NiCr-Ni)	Illustration	Meas. range	Accuracy	t ₉₀	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 ₉₀	Part no.
Standard air probe	150 mm Ø 3 mm Conn.: 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	Class B	40 s	0604 9973 0628 0018 *
Velcro probe for pipes with diameter of max. 75 mm	280 mm Conn.: Fixed cable	-50 to +150 °C	Class B	40 s	0628 0019
Standard immersion/penetration probe	200 mm Ø 3 mm Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	Stainless Steel -200 to +400 °C	Class A	20 s	0604 0273
Standard immersion/penetration probe	200 mm Ø 3 mm Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	Nickel -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	Stainless Steel -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°C	1000 mm Ø 3.5 mm Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	50 mm Ø 6 mm -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 Conn.: Fixed cable	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 ₉₀	Part no.
Highly accurate air probe for air and gas temperature measurements with bare, mechanically protected sensor	150 mm Ø 9 mm Conn.: Fixed cable	-40 to +130 °C	To UNI curve	60 s	0610 9714
Globe thermometer to measure radiant heat	Ø 150 mm Conn.: Fixed cable	0 to +120 °C	±0.5 °C (0 to +49.9 °C) ±1 °C (+50 to +120 °C) Accuracy corresponds to ISO 7243, ISO 7726, DIN EN 27726, DIN 33403 requirements		0554 0670

More probes	Illustration	Meas. range	Accuracy	Part no.
Ambient CO probe to measure CO level in ambient air	 190 mm Conn.: Fixed cable	0 to +500 ppm CO	±5% of mv (+100.1 to +500 ppm CO) ±5 ppm CO (0 to +100 ppm CO)	0632 1247
CO2 probe measures indoor air quality and monitors the workplace. With plug-in head, connection cable 0430 0143 or 0430 0145 required	 Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	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) ±(100 ppm CO ₂ ±3% of mv)(+5001 to +10000 ppm CO ₂)	0632 1240
Mechanical rpm probe with plug-in head Included 2 probe tips Ø 8 and Ø 12 mm 1 hollow cone Ø 8 mm 1 surface speed disc Ø 19 mm to measure rotational speed: rpm = rotational speed in mm/s	 Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	20 to 20000 rpm	±1 digit	0640 0340
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.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	0/4 to 20 mA	±0.04 mA	0554 0528

Accessories	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
Glass shaft for immersion/penetration probe to protect from corrosive agents For probes with Part nos. 0604 0273, 0609 7072 und 0628 0015	0554 7072
Adapter to connect NiCr-Ni thermocouples and probes with open wire ends	0600 1693
Handle for plug-in measuring tip	0600 5593
Silicone heat paste (14g), Tmax = +260°C, improves heat transfer in surface probes	0554 0004

