

05:47

*c

rH -0.1 ppm

CO2

hPa

Abs

Esc

hPa

ppm CO

TESTO AG/Office 1

31.01

30.0

1360.0

930.0

VAC analysis measuring instrument

testo 480 - Cutting-edge technology for professionals

Measurement of all VAC-relevant parameters: flow velocity, temperature, humidity, pressure, light intensity, radiant heat, degree of turbulence, and CO₂ with one instrument.

High-quality, digital probes

Intelligent calibration concept

Fast and professional report creation via PC software "EasyClimate" (included in delivery)

User-friendly trackpad and clear graphic display

Integrated, guided measurement programs e.g. VAC grid measurements according to EN 12599

testo 480 supports assessors, consultants, technical service providers or service technicians in the ventilation and air conditioning field. Measurement tasks such as the standardized adjustment of VAC systems in office, residential and industrial buildings can be carried out quickly and efficiently.

The VAC measuring instrument is equipped with intelligent digital probes with integrated memories. The probes inform the instrument as soon as the next calibration is due. The calibration data are entered via the software and are then permanently stored in the probe. This compensates deviations automatically, producing a zero-error display. The possibility of having the probes calibrated without the hand instrument ensures the uninterrupted use of the instrument. With the testo 480, professionals can detect negative environmental influences such as draughts, ensuring a climate of well-being, for example in open-plan offices, and sustainably reducing costs.

www.testo.com

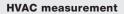
For latest prices and delivery to your door visit MyTub Ltd - www.mytub.co.uk - info@mytub.co.uk 0844 556 1818

Technical data

testo 480

High-end VAC measuring instrument testo 480, including "EasyClimate" PC software, power supply, USB cable and calibration protocol

Part no. 0563 4800



- High-end VAC measuring instrument testo 480, including "EasyClimate" PC software, power supply, USB cable and calibration protocol (Part no. 0563 4800)
- Vane measurement probe Ø 16 mm with telescope; Plug-in head cable necessary (Order no. 0430 0100) (Part no. 0635 9542)
- Thermal flow probe with telescope; Plug-in head cable necessary (Order no. 0430 0100) (Part no. 0635 1543)
- Vane measurement probe Ø 100 mm; Plug-in head cable necessary (Order no. 0430 0100) (Part no. 0635 9343)
- Humidity and temperature probe Ø 12 mm; Plug-in head cable necessary (Order no. 0430 0100) (Part no. 0636 9743)
- Pitot tube, 350 mm long, stainless steel, for measuring flow velocity (Part no. 0635 2145)
- System case for HVAC measurements (Part no. 0516 4800)
- Plug-in head cable (Part no. 0430 0100)
- Connection hose; silicone; 5 m long; max. load 700hPa (mbar) (Part no. 0554 0440)

Comfort measurement

- High-end VAC measuring instrument testo 480, including "EasyClimate" PC software, power supply, USB cable and calibration protocol (Part no. 0563 4800)
- Tripod for workplace evaluation (Part no. 0554 0743)
- Degree of turbulence probe; Plug-in head cable necessary (Order no. 0430 0100) (Part no. 0628 0143)
- Globe probe Ø 150mm (Part no. 0602 0743)
- Humidity and temperature probe Ø 12 mm; Plug-in head cable necessary (Order no. 0430 0100) (Part no. 0636 9743)
- IAQ probe including desk-top stand; Plug-in head cable necessary (Order no. 0430 0100) (Part no. 0632 1543)
- Lux probe (Part no. 0635 0543)
- System case for comfort level measurement (Part no. 0516 4801)
- Plug-in head cable (Part no. 0430 0100)

General technical data

Probe connection	2 x TC Type K, 1 x differential pressure, 3 x digital
Interfaces	USB connection, SD card, mains unit, infrared for fast printer
Oper. temp.	0 to +40 °C
Power supply	Rechargeable battery, plug-in mains unit for long-term measurements and charging battery
Battery life	approx. 17 hours (hand instrument without probes, with 50 % display brightness)
Display	Colour graphic display
Memory	1.8 GB (approx. 60,000,000 measurement value

Technical data

Sensor type	Differential pressure, integrated	Absolute pressure, integrated and external	Type K (NiCr-Ni)
Meas. range	-25 to +25 hPa	700 to 1100 hPa	-200 to +1370 °C
Resolution	0.001 hPa	0.1 hPa	0.1 °C
Sensor type	Radiation temperature, globe	Pt100	Vane, 16 mm
Meas. range	0 to +120 °C	-100 to +400 °C	+0.6 to +50 m/s
Resolution	0.1 °C	0.01 °C	0.1 m/s
Sensor type	Vane, 100 mm	Thermal flow velocity probe	Comfort probe
Meas. range	+0.1 to +15 m/s	0 to +20 m/s	0 to +5 m/s
Resolution	0.01 m/s	0.01 m/s	0.01 m/s
Sensor type	Testo humid. sensor, cap.	CO ₂	Lux
Meas. range	0 to 100 %RH	0 to 10.000 ppm CO ₂	0 to 100.000 Lux
Resolution	0.1 %RH	1 ppm CO ₂	1 Lux



Probes

Probe type	Measuring range	Accuracy ±1 digit	Part no.
Flow velocity probes			
Vane measurement probe Ø 16 mm with telescope; Plug-in head cable necessary (Order no. 0430 0100)	+0.6 to +50 m/s -10 to +70 °C	$\pm(0.2$ m/s +1% of mv) 0.6 - 40 m/s $\pm(0.2$ m/s +2% of mv) 40 - 50 m/s ±1.8 °C	0635 9542
Thermal flow probe with telescope; Plug-in head cable necessary (Order no. 0430 0100)	0 to +20 m/s -20 to +70 °C 0 to 100 %RH +700 to +1100 hPa	±(0.03 m/s +4% of mv) ±0.5 °C ±(1.8 %RH + 0.7% of mv) ±3 hPa	0635 1543
Vane measurement probe Ø 100 mm; Plug-in head cable necessary (Order no. 0430 0100)	+0.10 to + 15.00 m/s 0 to +60 °C	±(0.1 m/s +1.5% of mv) ±0.5 °C	0635 9343
Comfort probes			
Humidity and temperature probe Ø 12 mm; Plug-in head cable necessary (Order no. 0430 0100)	0 to 100 %RH -20 to +70 °C	±(1.0 %RH + 0.7% of mv) 0 to 90 %RH ±(1.4 %RH + 0.7% of mv) 90 to 100 %RH ±0.5 °C	0636 9743
IAQ probe including desk-top stand; Plug-in head cable necessary (Order no. 0430 0100)	0 to +50 °C 0 to 100 %RH 0 to +10000 ppm CO2 +700 to +1100 hPa	$\pm 0.5 \text{ °C}$ $\pm (1.8 \text{ %RH} + 0.7\% \text{ of mv})$ $\pm (50 \text{ ppm CO}_2 + 2\% \text{ of mv})$ $0 \text{ to } +5000 \text{ ppm CO}_2$ $\pm (100 \text{ ppm CO}_2 + 3\% \text{ of mv})$ $5001 \text{ to} +10000 \text{ ppm CO}_2$ $\pm 3 \text{ hPa}$	0632 1543
Degree of turbulence probe; Plug- in head cable necessary (Order no. 0430 0100)	 0 to +50 °C 0 to +5 m/s +700 to +1100 hPa	±0.5 °C ±(0.03 m/s +4% of mv) ±3 hPa	0628 0143
Globe probe Ø 150mm	0 to +120 °C	Class 1	0602 0743
Lux probe	0 to +100000 Lux	Class C according to DIN 5032-7; f1 = 6% V-Lamda; f2 = 5% cos	0635 0543

Further probes

High-precision Pt100 immersion and penetration probe, Plug-in head cable 0430 0100 required	200 mm Ø 3 mm	-100 to +400 °C	$\pm 0.15\ ^\circ \mathrm{C}\ +\ 0.2\%$ of mv(-100 to -0.01 $^\circ \mathrm{C})$ $\pm 0.15\ ^\circ \mathrm{C}\ +\ 0.05\%$ of mv(0 to 100 $^\circ \mathrm{C})$ $\pm 0.15\ ^\circ \mathrm{C}\ +\ 0.2\%$ of mv(100.01 to 350 $^\circ \mathrm{C})$ $\pm 0.5\ ^\circ \mathrm{C}\ +\ 0.5\%$ of mv(350.01 to 400 $^\circ \mathrm{C})$	0614 0073
---	------------------	--------------------	--	-----------

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t ₉₉	Part no.
Air probes					
Robust air probe, T/C Type K, Fixed cable	115 mm Ø 4 mm	-60 to +400 °C	Class 2 ¹⁾	25 s	0602 1793
Surface probes					
Fast-action surface probe with sprung thermocouple strip, also for uneven surfaces, measurement range short-term to +500°C, TC Type K, Fixed cable	115 mm Ø 5 mm Ø 12 mm		Class 2 ¹⁾	3 s	0602 0393
Fast-reaction paddle surface probe, for measurements in inaccessible places, e.g. narrow apertures and slots, TC Type K, Fixed cable	145 mm Ø 8 mm	n 0 to +300 °C E V O	Class 2 ¹⁾	5 s	0602 0193
Efficient, waterproof surface probe with small measurement head for flat surfaces, TC Type K, Fixed cable	150 mm Ø 2.5 mm Ø 4 mm	-60 to +1000 °C	Class 1 ¹⁾	20 s	0602 0693
Fast-action surface probe with sprung thermocouple strip, bent, also for uneven surfaces, measurement range short-term to +500°C, TC Type K, Fixed cable	80 mm Ø 5 mm E Ø 12 mm	-60 to +300 °C	Class 2 ¹⁾	3 s	0602 0993
Flat head surface probe with telescopic handle max. 680 mm for measurements at hard-to-access points, TC Type K, Fixed cable 1.6 m (correspondingly shorter when telescope extended)	680 mm 12 mm		Class 2 ¹⁾	3 s	0602 2394

¹⁾ According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (Type K), Class 2 to -40 to +1200 °C (Type K), Class 3 to -200 to +40 °C (Type K). A probe always corresponds to only **one** accuracy class.

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t ₉₉	Part no.
Surface probes					
Magnetic probe, adhesive force approx. 20 N, with magnets, for measurements on metal surfaces, TC Type K, Fixed cable	35 mm	-50 to +170 °C	Class 2 ¹⁾	150 s	0602 4792
Magnetic probe, adhesive force approx. 10 N, with magnets, for higher temp., for measurements on metal surfaces, TC Type K, Fixed cable	75 mm	-50 to +400 °C	Class 2 ¹⁾		0602 4892
Waterproof surface probe with widened measurement tip for flat surfaces, T/C Type K, Fixed cable	115 mm Ø 5 mm Ø 6 mm	-60 to +400 °C	Class 2 ¹⁾	30 s	0602 1993
Pipe wrap probe with velcro strip; for temperature measurement on pipes with diameter up to max. 120 mm; Tmax. +120 °C; TC Type K , Fixed cable	395 mm	-50 to +120 °C	Class 1 ¹⁾	90 s	0628 0020
Pipe wrap probe for pipe diameter 5 to 65 mm, with exchangeable measuring head. Meas. range short-term to +280°C, TC Type K, Fixed cable		-60 to +130 °C	Class 2 ¹⁾	5 s	0602 4592
Spare meas. head for pipe wrap probe, TC Type K	35 mm	-60 to +130 °C	Class 2 ¹⁾	5 s	0602 0092
Clamp probe for measurements on pipes, pipe diameter 15 to 25 mm (max. 1"), meas. range short-term up to +130°C, TC Type K, Fixed cable		-50 to +100 °C	Class 2 1)	5 s	0602 4692

¹⁾ According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (Type K), Class 2 to -40 to +1200 °C (Type K), Class 3 to -200 to +40 °C (Type K). A probe always corresponds to only **one** accuracy class.

Information on surface measurement:

• The response times t₉₉ stated are measured on ground steel or aluminium plates at +60 °C.
• The stated accuracies are sensor accuracies.
• The saturacy in your application is dependent on the surface structure (roughness), material of the measurement object (heat capacity and heat transfer), as wel as sensor accuracy.
Testo creates a corresponding calibration certificate for the deviations of your measurement system in your application. For this purpose, Testo uses a surface test bench developed in
cooperation with the PTB (Physikalisch Technische Bundesanstalt).

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t ₉₉	Part no.
Immers./penetr. probes				· · ·	
Efficient and fast-action immersion probe, waterproof, TC Type K, Fixed cable	Ø 1.5 mm 300 mm	-60 to +1000 °C	Class 1 1)	2 s	0602 0593
Fast-action, waterproof immersion/penetration probe, TC Type K, Fixed cable	60 mm 14 mm	-60 to +800 °C	Class 1 ¹⁾	3 s	0602 2693
Immersion tip, flexible, TC Type K	Ø 1.5 mm 500 mm	-200 to +1000 °C	Class 1 ¹⁾	5 s	0602 5793
Immersion tip, flexible, TC Type K	Ø 1.5 mm 500 mm	-200 to +40 °C	Class 3 ¹⁾	5 s	0602 5793
Immersion measurement tip, flexible, for measurements in air/exhaust gases (not suitable for measurements in smelters), TC Type K	Ø 3 mm 1000 mm	-200 to +1300 °C	Class 1 ¹⁾	4 s	0602 5693
Waterproof immersion/penetration probe, TC Type K, Fixed cable	114 mm 50 mm Ø 5 mm Ø 3.7 mm	-60 to +400 °C	Class 2 ¹⁾	7 s	0602 129
Flexible, low-mass immersion measurement tip, ideal for measurements in small volumes such as petri dishes, or for surface measurements (e.g. attached with adhesive tape), TC Type K, 2 m, FEP insulated thermal wire, temperature proof up to 200 °C, oval wire with dimensions: 2.2 mm x 1.4 mm	Ø 0.25 mm 500 mm	-200 to +1000 °C	Class 1 ¹⁾	1 s	0602 049
Waterproof food probe made of stainless steel (IP65), TC Type K, Fixed cable	125 mm 30 mm Ø 4 mm Ø 3.2 mm	-60 to +400 °C	Class 2 ¹⁾	7 s	0602 2292
Robust food probe with special handle, IP 65, reinforced cable (PUR), T/C Type K, Fixed cable	115 mm Ø 5 mm Ø 3.5 mm	-60 to +400 °C	Class 1 ¹⁾	6 s	0602 2492
Thermocouples					
Thermocouple with TC adapter, flexible, 800mm long, fibre glass, TC Type K	800 mm Ø 1.5 mm	-50 to +400 °C	Class 2 ¹⁾	5 s	0602 064
Thermocouple with TC adapter, flexible, 1500mm long, fibre glass, TC Type K	1500 mm Ø 1.5 mm	-50 to +400 °C	Class 2 ¹⁾	5 s	0602 064
Thermocouple with TC adapter, flexible, 1500mm long, PTFE, TC Type K	1500 mm Ø 1.5 mm	-50 to +250 °C	Class 2 ¹⁾	5 s	0602 064

¹⁾ According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (Type K), Class 2 to -40 to +1200 °C (Type K), Class 3 to -200 to +40 °C (Type K). A probe always corresponds to only **one** accuracy class.



Probe type	Dimensions Probe shaft/probe shaft tip		Part no.
Pitot tubes			
Pitot tube, 500 mm long, stainless steel, for measuring flow velocity	500 mm Ø 7 mm	Oper. temp. 0 to +600 °C	0635 2045
Pitot tube, 350 mm long, stainless steel, for measuring flow velocity	350 mm Ø 7 mm	Oper. temp. 0 to +600 °C	0635 2145
Pitot tube, 300 mm long, stainless steel, for measuring flow velocity	300 mm Ø 4 mm	Oper. temp. 0 to +600 °C	0635 2245
Pitot tube, 1000 mm long, stainless steel, measures flow speed	1000 mm Ø 7 mm	Oper. temp. 0 to +600 °C	0635 2345



Accessories

Accessories for measuring instrument	Part no.	
Tripod for workplace evaluation With holders for hand-held instrument and probe. Can also be used as telescope extension	0554 0743	
Plug-in head cable	0430 0100	
testovent 410, volume flow funnel, Ø 340 mm/330x330 mm, incl. case	0554 0410	
testovent 415, volume flow funnel, Ø 210 mm/210x210 mm, incl. case	0554 0415	
testovent 417 funnel set for disc valve (200x200 mm) and ventilator (330x330 mm) for ingoing and outgoing air	0563 4170	
Control and adjustment set for Testo humidity probes, salt solution with 11.3% RH and 75.3% RH, incl. adapter for Testo humidity probes	0554 0660	
Connection hose; silicone; 5 m long; max. load 700hPa (mbar)	0554 0440	
Connection hose silicone-free for differential pressure measurement	0554 0453	

Transport and Protection

System case for comfort level measurement For instrument, probes and other accessories	0516 4801	
System case for HVAC measurements, For instrument, probes and other accessories	0516 4800	

Printer and Accessories

Testo fast printer IRDA with wireless infrared interface; 1 roll thermal paper; 4 AA batteries for printing out measurements on site	0554 0549	
Spare thermal paper for printer (6 rolls), permanent ink, measurement data documentation legible for up to 10 years	0554 0568	

Calibration Certificates

ISO calibration certificate/temperature for air/immersion probes, calibration points -18°C; 0°C; +60°C	0520 0001
DAkkS calibration certificate/temperature; meas. instr. with air/immersion probe; calibration points -20 °C; 0 °C; +60 °C	0520 0211
ISO calibration certificate humidity; Calibration points 11.3 %RH and 75.3 %RH at +25°C	0520 0006
DAkkS calibration certificate/humidity; electronic hygrometers; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0206
ISO calibration certificate pressure; differential pressure, accuracy 0.1 to 0.6 (% of fsv)	0520 0025
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/light; Calibration points 0;500;1000;2000;4000 Lux	0520 0010
ISO calibration certificate/CO2; CO2 probes; calibration points 0; 1000; 5000 ppm	0520 0033

Accessories Probes

Plug-in head cable

0430 0100

www.testo.com