



Compact pH/°C measuring instrument

Probes
°C compensated



testo 230 combines a complete pH measuring instrument and a high standard thermometer in a compact, waterproof housing. The redox voltage can also be determined by connecting the redox electrode type 06.

The instrument has automatic temperature compensation and can be calibrated in the pH range with standard and also with DIN buffers.



Accurate pH measurement in aqueous solutions such as acids or alkalines

- Latest probe technology for almost every application
- pH/°C electrodes are connected via a single plug-in connection
- Easy, user-friendly operation
- Displays calibration data and error messages

testo 230

testo 230, water analysis instr., with 2 electrode clips and battery

Part no. 0560 2304



Fast and easy pH analysis e.g. during production

Suitable probes at a glance

Description	Illustration	Meas. range	Oper. temp.	Conn.	Part no.
Universal electrode type 01 pH: affordable, indestructible plastic electrode with gel electrolyte, thus practically maintenance-free	120 mm Ø 12 mm	0... +14 pH Short-term to +80°C	0... +60 °C	Fixed cable with BNC	0650 0623
Laboratory electrode type 02 pH: highly accurate glass electrode with excellent chemical resistance. Long life. Liquid electrolyte. Incl. standard ground sleeve adapter and immersion cap	135 mm Ø 12 mm	0... +14 pH Short-term to +100°C	0... +80 °C	Plug-in head, connection cable 0554 2317 or 0554 2314 required	0650 1223
Type 04 pH: indestructible plastic electrode with temperature sensor. Gel electrolyte, thus practically maintenance-free. Incl. ground sleeve adapter and immersion cap	135 mm Ø 12 mm	0... +14 pH 0... +60 °C	0... +60 °C	Fixed cable with BNC	0650 0823
Special electrode type 05 pH: indestructible plastic electrode with temperature sensor. Reduced problems with dirt, high accuracy due to single pore diaphragm. Incl. ground sleeve adapter and immersion cap	135 mm Ø 12 mm	0... +14 pH 0... +60 °C	0... +60 °C	Fixed cable with BNC	0650 1623
Penetration electrode type 03 pH: highly accurate glass electrode with solidified electrolyte suitable for use in food. Not affected by dirt due to hole diaphragm. Incl. ground sleeve adapter and immersion cap.	100 mm 35 mm Ø 6 mm	+2... +14 pH Short-term to +60°C	0... +40 °C	Plug-in head, connection cable 0554 2317 or 0554 2314 required	0650 0225
Robust penetration electrode type 13 pH: for solid or semi-solid foodstuff with break-proof plastic coating around the glass electrode and food-proof electrolyte. Not affected by dirt thanks to hole diaphragm. Incl. immersion cap	95 mm	+2... +14 pH	0... +40 °C	Fixed cable with BNC	0650 0245
Redox electrode type 06 mV: robust glass electrode, insensitive to electrode poisoning due to two chamber system. Incl. ground sleeve adapter and immersion cap	135 mm Ø 12 mm	-2000... +2000 mV	0... +80 °C	Plug-in head, connection cable 0554 2317 or 0554 2314 required	0650 2523

Description	Illustration	Meas. range	Accuracy	t99	Conn.	Part no.
Laboratory probe, glass-coated, resistant to corrosive substances, glass stem can be replaced	200 mm Ø 6 mm 30 mm Ø 5 mm	-50... +150 °C	±0.5% of mv (+100... +150 °C) ±0.2 °C (-25... +74.9 °C) ±0.4 °C (-50... -25.1 °C) ±0.4 °C (+75... +99.9 °C)	40 s 10 s*	Fixed cable	0613 7011
Food probe (IP65) stainless steel, PUR cable can be used at up to +80°C, IP54 plug-in connection	125 mm Ø 4 mm 15 mm Ø 3 mm	-50... +150 °C	±0.5% of mv (+100... +150 °C) ±0.2 °C (-25... +74.9 °C) ±0.4 °C (-50... -25.1 °C) ±0.4 °C (+75... +99.9 °C)	8 s	Fixed cable	0613 2211
Robust food penetration probe with special handle, IP 65, reinforced cable (PUR) and reinforced protection against buckling	115 mm Ø 5 mm 30 mm Ø 3.5 mm	-50... +150 °C	±0.5% of mv (+100... +150 °C) ±0.2 °C (-25... +74.9 °C) ±0.4 °C (-50... -25.1 °C) ±0.4 °C (+75... +99.9 °C)	7 s	Fixed cable	0613 2411

* without protective glass

pH
°C
mV

Pay less for a set

testo 230, Affordable Set



testo 230, water analysis instr., with 2 electrode clips and battery

Testo buffer set pH 4, 7; 50 ml each

Universal electrode type 01 pH

Set case (plastic) for measuring instrument, probes and accessories

Part no. 0563 2307

testo 230, Food Set



testo 230, water analysis instr., with 2 electrode clips and battery

Testo buffer set pH 4, 7; 50 ml each

Penetration electrode type 03 pH

Storage solution; 50ml

Connection cable for electrodes with plug-in head, 1m long

Food probe (IP65) stainless steel, PUR cable can be used at up to +80°C, IP54 plug-in connection

Set case (plastic) for measuring instrument, probes and accessories

Part no. 0563 2306

testo 230, Universal Set



testo 230, water analysis instr., with 2 electrode clips and battery

Testo buffer set pH 4, 7; 50 ml each

Universal electrode type 04 pH

Set case (plastic) for measuring instrument, probes and accessories

Part no. 0563 2305

testo 230, Food Set for solid/semi-solid food



testo 230, water analysis instr., with 2 electrode clips and battery

Testo buffer set pH 4, 7; 50 ml each

Robust penetration electrode type 13 pH

Storage solution; 50ml

Robust food penetration probe with special handle, IP 65, reinforced cable (PUR) and reinforced protection against buckling

Transport case (plastic) for instrument, probes and accessories

Part no. 0563 2308

Ordering data for Accessories

Part no.

Set case (plastic) for measuring instrument, probes and accessories	0516 0230
User-friendly arrangement of measuring instrument and accessories	
Glass pipe for laboratory probe	0554 7072
Connection cable for electrodes with plug-in head, 1m long S7-BNC plug-in connection	0554 2317
Connection cable for electrodes with plug-in head, 5m long S7-BNC plug-in connection	0554 2314
Testo buffer set pH 4, 7; 50 ml each for calibration in acidic range	0554 2321
Testo buffer set pH 4, 7, 10; 50ml each for calibration in acidic and alkaline range	0554 2320
DIN buffer set 4.008/6.865; 250 ml each for calibration to DIN in acidic range	0554 2339
DIN buffer set 6.865/9.180; 250 ml each For calibration to DIN in alkaline range	0554 2340
Storage solution (refill solution for electrode type 02 pH), 50 ml For electrodes type 01 pH, 02 pH, 04 pH, 06 mV	0554 2332
Storage solution; 50ml For electrode type 03 pH and type 13 pH	0554 2318
Storage and refill solution; 50ml For electrode type 05 pH	0554 2319
Redox standard 358 mV, 50ml	0554 2333
ISO calibration certificate/Water analysis For pH buffer solutions; calibration points 4 pH; 7 pH; 10 pH	0520 0007
ISO calibration certificate/Water analysis At 3 pH values over the measuring range	0520 0037

Technical data

Probe type	pH electrode	NTC	Redox electrode
Meas. range	0... +14 pH	-50... +150 °C	-1999... +1999 mV
Accuracy ± 1 digit	±0.01 pH (0... +14 pH)	±0.5% of mv (+100... +150 °C) ±0.2 °C (-25... +74.9 °C) ±0.4 °C (-50... -25.1 °C) ±0.4 °C (+75... +99.9 °C)	±1 mV (-999... 0 mV) ±1 mV (0... +999 mV) ±2 mV (-1999... -1000 mV) ±2 mV (+1000... +1999 mV)
Resolution	0.01 pH (0... +14 pH)	0.1 °C (-50... +150 °C)	1 mV (-1999... +1999 mV)
Display	LCD, 2 lines		
Oper. temp.	0... +40 °C		
Storage temp.	-20... +70 °C		
Battery type	9V block battery		
Battery life	100 h		
Dimensions	168x72x27 mm		
Weight	170 g		
Warranty	2 years		
Temperature compensation: man. -10 to +150°C; auto -50 to +150°C			

pH

°C

mV