

TESTO 320

Highly efficient flue gas analyser



The new testo 320 is a high-quality measuring instrument for efficient flue gas analysis. Its wide measuring range makes it a reliable partner for eliminating malfunctions and emergencies, monitoring legal limit values or for daily routine work servicing heating systems.

The numerous measurement menus of the testo 320 are clearly structured. Standardized menu procedures, which are stored in the instrument specifically for your country, simplify operation – depending on which standards you are dealing with. The high-resolution display allows a detailed presentation of the measurement procedures and is easily legible even under the worst conditions.

HIGH-RESOLUTION COLOUR GRAPHIC DISPLAY

The measurement menus and measurement values are presented in detail and always easily legible.

SENSOR MONITORING

Integrated traffic light system which continuously monitors the sensor functionality.

FAST SENSOR ZEROING

Automatic zeroing of gas sensor in only 30 seconds after start up, which can be cancelled if not required.

SENSORS EXCHANGEABLE BY THE USER

Easy exchange of sensors by the user – no adjustment necessary.

MEMORY

Up to 500 measurement protocols can be saved and called up in the memory of the testo 320.

LITHIUM BATTERY

Operation with a Lithium battery (1500mAh) – no battery change necessary, up to eight hours running time, charging via USB connection possible.

ATTACHMENT

Integrated magnets for fast attachment to burner/boiler.

STAMP OF APPROVAL

The flue gas analyzer testo 320 is TÜV-tested according to EN 50379, Parts 1-3.

ROBUST DESIGN

Robust, durable instrument – ideally suited even to rough surroundings.

CONDENSATE TRAP

Integrated condensate trap – very easily emptied.

EFFICIENT EXCHANGE OF PROBES

Fast and easy exchange of probes via the probe coupling.

KEY FEATURES

- High-resolution colour graphic-display
- Quick and easy menu structure
- Storage space for 500 measurement values
- Measurement of flue gas, draught, pressure, ambient CO, differential temperature and gas leak detection
- O₂ and CO sensor and flue gas probe with temperature probe
- TÜV-tested according to EN 50379, Parts 1-3

All gas paths are connected to the instrument at once with the bayonet connection.

FLEXIBILITY WITH MODULAR PROBES

A range of probe lengths and diameters ensure a high degree of flexibility for all applications. To exchange the probe shaft, it is simply placed on the probe handle and engages.

PROBE FILTER

Easy exchange of probe filter.

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	Measurement range	Accuracy ± 1 digit	Resolution	Adjustment time t90
Temperature	-40 to +1200 °C	± 0.5 °C (0 to +100.0 °C) ± 0.5 % of m.v. (remaining range)	0.1 °C (-40 to +999.9 °C) 1 °C (> +1000 °C)	< 50 s
Draught measurement	-9.99 to +40 hPa	± 0.02 hPa or $\pm 5\%$ of m.v. (-0.50 to +0.60 hPa) ± 0.03 hPa (+0.61 to +3.00 hPa) $\pm 1.5\%$ of m.v. (+3.01 to +40.00 hPa)	0.01 hPa with fine draught option 0.001 hPa	-
Pressure measurement	0 to +300 hPa	± 0.5 hPa (0.0 to 50.0 hPa) $\pm 1\%$ of m.v. (50.1 to 100.0 hPa) ± 1.5 % of m.v. (remaining range)	0.1 hPa with fine draught option 0.01 hPa	-
O ₂ measurement	0 to 21 Vol. %	± 0.2 Vol. %	0.1 Vol. %	< 20 s
CO measurement (without H ₂ compensation)	0 to 4000 ppm	± 20 ppm (0 to 400 ppm) $\pm 5\%$ of mv (401 to 2000 ppm) $\pm 10\%$ of mv (2001 to 4000 ppm)	1 ppm	< 60 s
CO measurement (H ₂ -compensated)	0 to 8000 ppm	± 10 ppm or $\pm 10\%$ of m.v. (0 to 200 ppm) ± 20 ppm or $\pm 5\%$ of m.v. (201 to 2000 ppm) $\pm 10\%$ of m.v. (2001 to 8000 ppm)	1 ppm	< 40 s
Determination of degree of efficiency (Eta)	0 to 120 %	-	0.1%	-
Flue gas loss	0 to 99.9%	-	0.1%	-
CO ₂ determination digital calculation from O ₂	0 to CO2 max	± 0.2 Vol. %	0.1 Vol. %	-
Option COlow measurement (H ₂ -compensated)	0 to 500 ppm	± 2 ppm (0 to 39 ppm) $\pm 5\%$ of m.v. (40 to 500 ppm)	0.1 ppm	< 40 s
Ambient CO measurement (with CO probe)	0 to 500 ppm	± 5 ppm (0 to 100 ppm) $\pm 5\%$ of m.v. (> 100 ppm)	1 ppm	-
Gas leak measurement for flammable gases (with gas leak detection probe)	0 to 10.000 ppm CH ₄ / C ₃ H ₈	Signal optical display (LED) audible signal via buzzer	-	< 2 s
Ambient CO measurement (with CO probe)	0 to 1 Vol. % 0 to 10.000 ppm	± 50 ppm or $\pm 2\%$ of m.v. (0 to 5000 ppm) ± 100 ppm or $\pm 3\%$ of m.v. (5001 to 10000 ppm)	-	-

SPECIFICATIONS Specifications subject to change without notice

Storage Temp:	-20 to +50 °C
Operational Temp:	-5 to +45 °C
Power Supply:	Battery: 3.7 V / 2,400 mAh Mains unit: 6 V / 1.2 A
Display:	Colour graphic display 240 x 320 pixels
Weight with Probe:	573 g
Dimensions:	240 x 85 x 65 mm
Warranty:	Instrument/probe/gas sensors: 24 months Battery: 12 months
Part Number:	73-3200 Testo 320 Low Cot Kit- includes- testo 320 flue gas analyzer, power supply, USB Micro cable, system case, Flue Gas Probe & Spare particle Filter. 73-3201 Testo 320 Intermediate Kit- includes- testo 320 flue gas analyzer, power supply, USB Micro cable, system case, Flue Gas Probe (300mm) , Spare particle Filter & Testo fast printer.



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