

# Heavy Duty Residential / Light Commercial Combustion Analyzer

## testo 320 LX

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Measures O<sub>2</sub>, CO (up to 4,000 ppm), draft, differential pressure, differential temperature and calculates CO<sub>2</sub>

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Optional CO and gas leak detection probes

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Integrated NO<sub>x</sub> filter eliminates cross-sensitivity (error) from NO<sub>x</sub> gases

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Continuous temperature compensation reduces measurement error during temperature changes

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Field replaceable pre-calibrated CO and O<sub>2</sub> sensors

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Automatic pump shut-off for CO over range and auto purge at the termination of measurement

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Print test data for your records and future reference with optional wireless printer

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The testo 320 combustion analyzer is the industry standard in flue gas measurement. Its wide measuring range, versatility and rugged design makes it a reliable partner for commissioning, tuning and troubleshooting heating systems. It is programmed for 20 fuels and features a bright color graphic display, expanded memory, up to 500 measurements, optional PC software, Bluetooth (Android only) and much more.

The measurement menus of the testo 320 are clearly structured and make navigation and set-up a breeze. The 320's hardened cam-lock fitting provides leak-free operation and greater test confidence & upgrades are fast and easy with detachable gas sampling probe and field replaceable sensors. The high-resolution icon based display allows a detailed representation of the measurement procedures and is easily legible even under the worst lighting conditions.

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## Residential / Light Commercial Combustion Analyzer

### Kit 1: Essentials kit (Part no. 0563 3220 70)

Kit includes: Analyzer, 12" flue gas probe, rechargeable battery with universal AC Adaptor, particle filters, case, certificate of conformity

### Kit 2: Essentials kit with printer (Part no. 0563 3220 71)

Kit includes all components Kit 1 PLUS: IRDA wireless printer



Essentials Kit with Printer

## Technical data

Measurement Parameters	Measuring range	Accuracy	Resolution	Response time $t_{90}$
<b>Temperature</b>	-40 to 2,192°F	Accuracy: $\pm 0.5^\circ\text{F}$ (32 to 212°F) Accuracy: $\pm 0.5\%$ of m.v. remaining range	0.1°F: -40 to 1,831°F 1°F: from 1,832°F	
<b>Draft measurement</b>	-4.01 to 16 inH <sub>2</sub> O	$\pm 0.02$ inH <sub>2</sub> O or $\pm 5\%$ of m.v. (at -0.2 to 0.24 inH <sub>2</sub> O) $\pm 0.03$ inH <sub>2</sub> O (0.25 to 1.20 inH <sub>2</sub> O) $\pm 1.5\%$ of m.v. (at 1.21 to 16.05 inH <sub>2</sub> O)	0.01 inH <sub>2</sub> O with fine draught option 0.001 inH <sub>2</sub> O	
<b>Pressure measurement</b>	0 to 120 inH <sub>2</sub> O	$\pm 0.5$ inH <sub>2</sub> O (0.0 to 20 inH <sub>2</sub> O) $\pm 1\%$ of m.v. (at 20.1 to 40 inH <sub>2</sub> O) $\pm 1.5\%$ of m.v. (at 40.1 to 120 inH <sub>2</sub> O)	0.1 inH <sub>2</sub> O with fine pressure option 0.01 inH <sub>2</sub> O	
<b>O<sub>2</sub> measurement</b>	0 to 21 vol. %	$\pm 0.2$ vol. %	01 vol. %	< 20 sec
<b>CO measurement (without H<sub>2</sub> compensation)</b>	0 to 4,000 ppm	$\pm 20$ ppm (0 to 400 ppm) $\pm 5\%$ of m.v. (401 to 2,000 ppm) $\pm 10\%$ of m.v. (2,001 to 4,000 ppm)	1 ppm	< 60 sec
<b>Efficiency testing (Eta)</b>	0 to 120 %		01 %	
<b>Exhaust gas loss</b>	0 to 99.9 %		01 %	
<b>CO<sub>2</sub> determination</b> <small>digital calculation from O<sub>2</sub></small>	0 to CO <sub>2</sub> max	$\pm 0.2$ vol. %	01 %	
<b>Ambient CO measurement (with CO probe)</b>	0 to 500 ppm	$\pm 5$ ppm (0 to 100 ppm) $\pm 5\%$ of m.v. (>100 ppm)	1 ppm	
<b>Gas leak measurement for combustible gases (with gas leak detector probe)</b>	0 to 10,000 ppm CH <sub>4</sub> / C <sub>3</sub> H <sub>8</sub>	Optical display (LED) Audible alarm via buzzer < 2 sec		
<b>Ambient CO<sub>2</sub> measurement (with ambient CO<sub>2</sub> probe)</b>	0 to 1 vol. % 0 to 10,000 ppm	$\pm 50$ ppm or $\pm 2\%$ of m.v. (0 to 5,000 ppm) $\pm 100$ ppm or $\pm 3\%$ of m.v. (5,001 to 10,000 ppm)		

General technical data			
Storage temp.	-4 to 122 °F	Display	Color graphic display with 240 x 320 pixels
Oper. temp.	23 to 113 °F	Weight	1.25 lbs.
Power supply	Rechargeable battery: 3.7 V / 2,400 mAh AC Adapter: 6 V/1.2 A	Dimensions	L 9.4 x W 3.4 x H 2.5 inches
Memory	500 readings	Warranty	Instrument*/probes/gas sensors: 24 months Rechargeable battery: 12 months



To pair the combustion analyzer to your smart device, turn on the testo 320 with Blue-tooth, and run the testo Combustion app. Once the app is running, select the correct serial number in the App, and the device will pair automatically.



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