

Data sheet

testo 330-1/-2 LX
testo 330i LX

Be sure. **testo**

Flue gas analysers – special anniversary models

testo 330-1 LX, testo 330-2 LX
and testo 330i LX

5 year warranty without maintenance contract on O₂ and CO sensors

Dilution to 30,000 ppm CO (testo 330-2 LX / testo 330i LX)

Longlife sensors with up to 6 years' lifetime

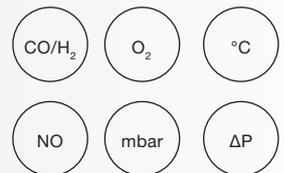
Integrated sensor monitoring

TÜV-tested according to EN 50379, Parts 1-3

With Apps for operation and documentation



60 **Testo**
1957-2017



In 2017, Testo is turning 60 – and we're celebrating with the testo 330-1 LX, testo 330-2 LX and testo 330i LX flue gas analysers anniversary sets. They are the only models on the market with 5 years' warranty without a maintenance contract. The sets contain a flue gas analyser, flue gas probe, mains unit and case. In addition, some sets also offer a printer. The three measuring instruments meet the highest requirements regarding longevity, precision and reliability. Numerous stored measurement menus and intuitive operation make your daily work easier than ever before.

On top of this, the comprehensive flue gas probe range and other accessories from Testo often replace an additional instrument.

The anniversary models stand out thanks to high-quality measurement cells for O₂, CO and NO (optional), with an extended lifetime of up to 6 years. This saves at least one sensor replacement over the typical useful life. All 3 instruments have an App connection for more ease of operation and documentation.

www.testo.co.uk

Ordering data

Anniversary set testo 330-1 LX



- Set consists of
- Flue gas analyser testo 330-1 LX with O₂ sensor, CO sensor and Bluetooth®
 - International mains unit
 - Basic flue gas probe, length 180 mm, Ø 6 mm
 - Spare dirt filter (10 off)
 - System case for instrument, probes and accessories

Order no. 0563 6033 70

Anniversary set testo 330-1 LX with printer



- Set consists of
- Flue gas analyser testo 330-1 LX with O₂ sensor, CO sensor and Bluetooth®
 - International mains unit
 - Basic flue gas probe, length 180 mm, Ø 6 mm
 - Spare dirt filter (10 off)
 - Testo fast printer IRDA
 - Spare thermal paper
 - System case for instrument, probes and accessories

Order no. 0563 6033 71

Anniversary set testo 330-2 LX



- Set consists of
- Flue gas analyser testo 330-2 LX with O₂ sensor, H₂-compensated CO sensor and Bluetooth®
 - International mains unit
 - Modular flue gas probe, length 180 mm, Ø 8 mm
 - Spare dirt filter (10 off)
 - System case for instrument, probes and accessories

Order no. 0563 6034 70

Anniversary set testo 330-2 LX with printer



- Set consists of
- Flue gas analyser testo 330-2 LX with O₂ sensor, H₂-compensated CO sensor and Bluetooth®
 - International mains unit
 - Modular flue gas probe, length 180 mm, Ø 8 mm
 - Spare dirt filter (10 off)
 - Testo fast printer IRDA
 - Spare thermal paper
 - System case for instrument, probes and accessories

Order no. 0563 6034 71

Anniversary set testo 330i LX



- Set consists of
- Flue gas analyser testo 330i LX with O₂ sensor, CO sensor and Bluetooth®
 - International mains unit
 - Basic flue gas probe, length 180 mm, Ø 6 mm
 - Spare dirt filter (10 off)
 - Instrument case testo 330i

Order no. 0563 6035 70

Anniversary set testo 330i LX with CO H₂-compensation



- Set consists of
- Flue gas analyser testo 330i LX with O₂ sensor, H₂-compensated CO sensor and Bluetooth®
 - International mains unit
 - testoFix probe mount
 - Modular flue gas probe, length 180 mm, Ø 8 mm
 - Spare dirt filter (10 off)
 - Instrument case testo 330i

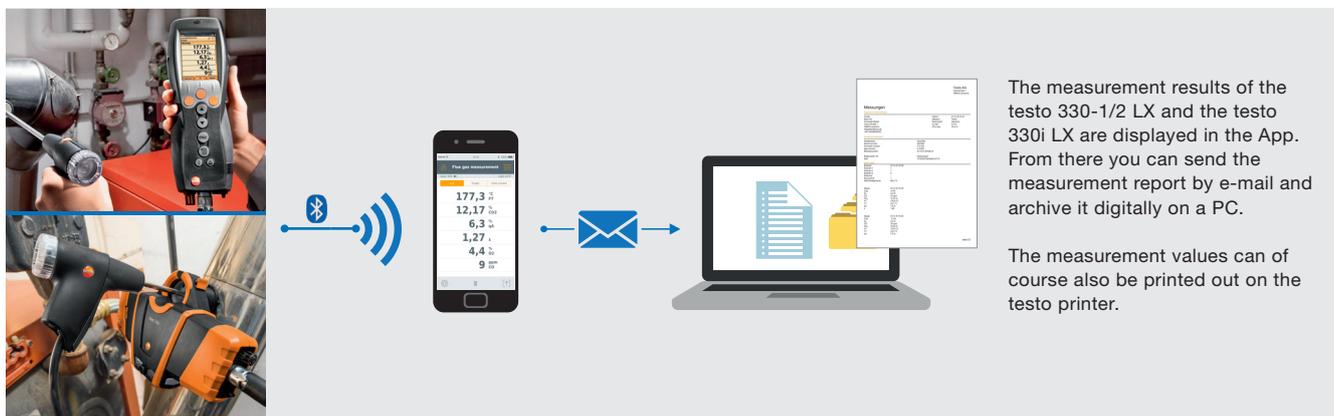
Order no. 0563 6035 71

testo 330 flue gas analysers in comparison



Fuels	Oil, gas, solid fuels	Oil, gas, solid fuels	Oil, gas, solid fuels
Measuring ranges CO measurement	not H ₂ -compensated: 0 to 4,000 ppm	H ₂ -compensated: 0 to 30,000 ppm (due to fresh air dilution)	Not H ₂ -compensated: 0 to 15,000 ppm (due to fresh air dilution) H ₂ -compensated: 0 to 30,000 ppm
CO measurement H ₂ -compensated	–	✓	✓
Longlife CO sensor with up to 6 years' lifetime	✓	✓	✓
Flue gas loss measurement	✓	✓	✓
Draught measurement	✓	Parallel to flue gas measurement	Parallel to flue gas measurement
Differential/gas flow pressure measurement	✓	✓	✓
Error and sensor diagnosis	✓	✓	✓
Zeroing of the measurement cells and the sensor without probe removal	–	✓	✓
CO measurement with 15 min mean value calculation on solid fuel systems	–	✓	–
Warranty O ₂ -/CO sensors	5 years	5 years	5 years
Display	High-resolution colour graphic display	High-resolution colour graphic display	Smartphone / tablet
Memory	500,000 measurement protocols	500,000 measurement protocols	500,000 measurement protocols
Software/App	testo EasyHeat PC Software / testo Combustion App	testo EasyHeat PC Software / testo Combustion App	testo 330i App

Measure more flexibly. Document more easily.



Download **testo Combustion App** and **testo 330i App** for free

Technical data

Measurement parameter	Measuring range	Accuracy (± 1 digit)	Resolution	t_{90}
Temperature	-40 to +1,200 °C	± 0.5 °C (0.0 to +100.0 °C) ± 0.5 % of m.v. (remaining meas. range)	± 0.1 °C (-40 - 999.9 °C) ± 1 °C (remaining meas. range)	
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	
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 meas. range)	0.1 hPa	
O₂ measurement	0 to 21 vol.%	± 0.2 vol.%	0.1 vol.%	< 20 sec
CO measurement (without H ₂ compensation)	0 to 4,000 ppm	± 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
CO measurement (H ₂ -compensated)	0 to 8,000 ppm	± 10 ppm or $\pm 10\%$ of m.v. (0 to 200 ppm) ± 20 ppm or $\pm 5\%$ of m.v. (201 to 2,000 ppm) $\pm 10\%$ of m.v. (2,001 to 8,000 ppm)	1 ppm	< 60 sec
CO measurement (H ₂ -compensated) (testo 330-2 LX with automatic dilution)	0 to 30,000 ppm	± 100 ppm (0 to 1000 ppm) $\pm 10\%$ of m.v. (1001 to 30,000 ppm)	1 ppm	
CO measurement (H ₂ -compensated) with activated measuring range extension (testo 330i LX)	0 to 30,000 ppm	± 200 ppm or $\pm 20\%$ of m.v. (0 to 30,000 ppm)	1 ppm	
CO measurement (not H ₂ -compensated) with activated measuring range extension (testo 330i LX)	0 to 15,000 ppm	± 200 ppm or $\pm 20\%$ of m.v. (0 to 15,000 ppm)	1 ppm	
Efficiency testing (Eta)	0 to 120%	0.1%		
Flue gas loss	0 to 99.9%		0.1%	
CO₂ determination (digital calculation from O ₂)	Display area 0 to CO ₂ max	± 0.2 vol.%	0.1 vol.%	< 40 sec
Option NO measurement	0 to 3,000 ppm	± 5 ppm (0 to 100 ppm) $\pm 5\%$ of m.v. (101 to 2,000 ppm) $\pm 10\%$ of m.v. (2,001 to 3,000 ppm)	1 ppm	< 30 sec
Ambient CO measurement (with optional CO probe)	0 to 500 ppm	± 5 ppm (0 to 100 ppm) $\pm 5\%$ of m.v. (>100 ppm)	1 ppm	approx. 35 sec
Gas leak measurement for combustible gases (with gas leak detector probe)	Display range 0 to 10,000 ppm CH ₄ /C ₃ H ₈	Signal visual indication (LED) audible indication by buzzer		< 2 sec
Ambient CO₂ measurement (with ambient CO ₂ probe)	0 to 1 vol. % 0 to 10,000 ppm	± 50 ppm or $\pm 2\%$ of m.v. (0 to 5,000 ppm) ± 100 ppm or $\pm 3\%$ of m.v. (5,001 to 10,000 ppm)		approx. 35 sec
Differential pressure, flow velocity and temperature (via fine pressure probe)	$\pm 10,000$ Pa 0.15 to 3 m/s max. -40 to +1,200 °C (dependent on probe)	± 0.3 Pa (0 to 9.99 Pa) plus ± 1 digit $\pm 3\%$ of m.v. (10 to 10,000 Pa) plus ± 1 digit ± 0.5 °C (-40 to 100 °C) ± 0.5 % of m.v. (remaining meas. range) plus probe accuracy	0.1 m/s 0.1 °C	

General technical data

Compatibility (testo 330i LX)	requires iOS 7.1 or newer / Android 4.3 or newer requires mobile end device with Bluetooth 4.0
Weight (without battery)	testo 330i LX: 720 g testo 330-1/-2 LX: 600 g
Dimensions	testo 330i LX: 270 x 160 x 57 mm testo 330-1/-2 LX: 270 x 90 x 65 mm
Storage temperature	-20 to +50 °C
Operating temp.	-5 to +45 °C

Power supply	Rechargeable battery pack 3.7 V / 2.6 Ah; mains unit 6 V / 1.2 A
Memory	500,000 readings
Display testo 330-1/-2 LX	Colour graphic display 240 x 320 Pixel
Warranty	Gas sensors (O ₂ , CO) 60 months Instrument/probe 48 months NO sensor 24 months Thermocouple and battery 12 months