

testo 330-1 LL - Flue gas analysis with increased convenience and reliabilty



You are looking at the technical edge.

The extended service life of the

sensors in testo 330-1 LL by up

to 6 years for O₂ and CO greatly reduce follow-on costs for the user. At least one O2 and one

CO sensor change can be dispensed with during typical

warranty on the complete

utilisation of the instrument. In

addition, Testo offers a four year

instrument (testo 330-1 LL with O₂ and CO measurement sensors and probe).



















Convenient introductory analyser in the pro class for heating technicians and fitters

testo 330-1 LL

The major advantage of flue gas analysers lie in their dialog feature: instrument diagnosis provides information about the qualitative status of functions at the touch of a button; for example, the level in a condensate trap but also wearing parts such as the condition of the gas sensors. Maintenance intervals are displayed allowing you to plan better. The times when an analyser let the user down all of a sudden are a thing of the past.

Modular probes such as ΔT , ΔP , flue gas are recognised automatically by the analyser so that measurement results appear immediately in the display.

The probes have a probe quickrelease device with which all of the gas paths are connected without mix-ups. The single cable is rigid, indestructible, saves space and creates order. The particle filter is located directly in the probe's handle. Probe shafts with different lengths and diameters can be easily attached to the probe handle.

- Instrument diagnosis
- ΔT measurement, flow/return
- Ambient CO measurement
- Ambient CO₂ measurement
- Detects gas leaks using gas leak detection probe
- ΔP measurement for gas pressure
- Gas/oil throughput
- 200 measurement data sets, system numbers included
- IRDA interface for data transfer to PDA/Notebook
- TÜV By RgG 250 acc. to 1. BlmSchV
- Official test acc. to EN 50379-2 for O₂, °C, hPa
- · Official test acc. to EN 50379-3 for CO
- USB interface for data transfer to PC
- Data management with easyheat software (PC) and easyheat.mobile (Pocket PC)









testo 330-1 LL flue gas analyser with long-life gas sensors, rechargeable battery and calibration protocol included

Part no. 0632 3304



Technical data -40 to +1200 °C Temperature Draught measurement -9.99 to +40 hPa Pressure measurement 0 to 200 hPa O. measurement 0 to 21 Vol. % CO measurement (without H2 compensation) 0 to 4000 ppm 0 to 120% Efficiency measurement (Eta) Flue gas loss 0 to 99.9% Display range 0 to CO2 max CO2 measurement Option: NO_{low} measurement 0 to 300 ppm Option: NO measurement 0 to 3000 ppm Ambient CO measurement (with CO probe) 0 to 500 ppm Gas leak measurement for combustible Display range 0 to 10,000 ppm gases (with gas leak detection probe) CH₄ / C₃H₈ Ambient CO, measurement (with ambient CO, probe) 0 to 1 Vol. % 0 to 10000 ppm

General Technical data

Weight

Memory

600 g (without rechargeable battery)

Dimensions 270 x 90 x 65 mm Storage temp. -20 to +50 °C -5 to +45 °C Oper. temp.

Graphics display 160 x 240 pixel Display Rech. batt. block 3.7 V / 2.2 Ah Power supply

Mains unit 6 V / 1.2 A Warranty Instrument/probe/gas sensors (O2, CO)

4 years NO, NOlow sensor 2 vears Thermocouple and rech. battery 1 year

The new long-life set for heating fitters and technicians

testo 330-1 LL flue gas analyser with rech. battery and calibration protocol

Mains unit 100-240 V for mains operation or charging the battery in the

Modular flue gas probe, immersion depth: 300 mm, Ø 8 mm

Combustion air temperature probe, immersion depth: 190 mm

Hose connection set for separate gas pressure measurement

IRDA printer

Flexible probe shaft, 330 mm long, Ø 10 mm, Tmax 180 °C

Basic system case for instrument, probes and accessories

Part no. 0563 3324 70

















The special long-life version for customer service and maintenance technicians

















The flue gas analyser is a reliable companion regardless of whether it is for breakdowns or emergencies, monitoring legal limits or used during everyday maintenance. It supports a fast switch between measurement and maintenance. It can remain positioned in the flue during draught and flue gas zeroing. For applications under extreme conditions, such as badly polluted furnaces, Testo's patented technology guarantees reliable display of a CO value up to 30,000

- Instrument diagnosis
- · Automatic instrument leakproofness test
- ΔT measurement, flow/return
- Ambient CO measurement
- Ambient CO2 measurement
- Detects leaks with gas leak detection probe
- ΔP measurement for gas pressure
- Gas/oil throughput
- 400 measurement data sets incl. site address and system no.

- IRDA interface for data transfer to Pocket PC/notebook
- USB interface for data transfer to
- Interface to automatic furnaces
- TÜV By RgG 251 acc. to 1. BlmSchV
- Official test acc. to EN 50379-2 for O₂, °C, hPa und CO
- Draught zeroing without probe removal. The probe can remain in the flue during zeroing
- Zeroes flue gas sensors without probe removal



testo 330-2 LL

testo 330-2 LL flue gas analyser with long-life gas sensors and built-in draught and gas zeroing, rech. batt. and calibration protocol included

Part no. 0632 3305

Technical data		
Temperature		-40 to +1200 °C
Draught measurement		-9.99 to +40 hPa
Pressure measurement		0 to 200 hPa
O ₂ measurement		0 to 21 Vol. %
CO measurement (H ₂ compensated) from 8000 ppm display range 8000 to 30000 ppm	n (automatic dil	0 to 8000 ppm ution)
Efficiency measurement (Eta)		0 to 120%
Flue gas loss		0 to 99.9%
CO2 measurement	Display range	0 to CO2 max
Option: NO _{low} measurement		0 to 300 ppm
Option: NO measurement		0 to 3000 ppm
Ambient CO measurement (with CO probe)		0 to 500 ppm
Gas leak measurement for combustible gases (with gas leak detection probe)	Display range	0 to 10.000 ppm CH ₄ / C ₃ H ₈
Ambient CO ₂ measurement (with ambient CO ₂	probe)	0 to 1 Vol. % 0 to 10000 ppm

General technical data

Memory Weight 600 g (without rechargeable battery)

Dimensions 270 x 90 x 65 mm Storage temp. -20 to +50 °C -5 to +45 °C Oper. temp.

Graphics display 160 x 240 pixel Display Rech. block 3.7 V / 2.2 Ah Power supply Mains unit 6 V / 1.2 A

Warranty Instrument/probe/gas sensors (O2, CO)

4 years NO, NOlow sensor 2 years Thermocouple and battery 1 year



Fast monitoring of flue gas values in heating systems

The new long-life set for customer service and maintenance technicians

testo 330-2 LL flue gas analyser

Mains unit 100-240 V for mains operation or charging battery in instrument

Modular flue gas probe, immersion depth: 300 mm, Ø 8 mm Combustion air temperature probe, immersion depth: 190 mm

Hose connection set for separate gas pressure measurement

IRDA printer

Flexible probe shaft, 330 mm long, Ø 10 mm, Tmax 180 °C

Basic system case for instrument, probes and accessories

Part no. 0563 3325 70

The new long-life set for heating inspectors

testo 330-2 LL flue gas analyser with rechargeable battery and calibration

Mains unit 100-240 V for mains operation or recharging battery in instrument

Modular flue gas probe, immersion depth: 300 mm, ø 8 mm Combustion air temperature probe, immersion depth: 190 mm

Hose connection set for separate gas pressure measurement

Flexible probe shaft, 330 mm long

Dual-wall clearance probe

Basic system case for instrument, probes and accessories

0563 3325 71 Part no.

See page 14+15 for Accessories Ordering Data



User-friendly, portable data management for flue gas analysis

The testo easyheat and easyheat.mobile software package

The latest top technology in flue gas analysis: the testo 330 LL product line with extended sensor life not only communicates with PC but with also with your Pocket PC. Various software packages give the customer the option of adapting his testo 330 LL exactly to his communications needs.

Using easyheat PC software, customer data, sites and measurements which have already been taken, are easily managed on your PC at home.

easyheat.mobile Pocket PC software supports wireless communication with Windows Mobile instruments. In this way, wireless acceptance of measurement data to the mobile instrument is possible.

Data from the Pocket PC or directly from the analyser is printed on your IrDA printer.

System requirements:

easyheat PC software:

Microsoft Windows 98 operating system, ME 2000, from Service Package 3 up, or XP

easyheat.mobile Pocket PC software:

Pocket PC with IrDA interface and touchscreen, operating system from Windows Mobile 2003

Fast-action IrDA printer:

at.mobile

Please refer to the list of Pocket PCs tested and recommended by Testo at www.testo.de/downloads/easyhe

0554 0548

0554 0568



The new testo 330-1 LL communication set

- testo 330-1 LL flue gas analyser with rech. battery and calibration protocol
- Power pack 100-240 V for mains operation or battery recharging in analyser
- ·Modular flue gas probe, 300 mm immersion depth, ø 8 mm
- ·Combustion air temperature probe, 190 mm long
- ·Hose connection set for separate gas pressure measurement
- ·Fast-action IrDA printer and rechargeable battery
- ·Full version: easyheat and easyheat.mobile
- ·USB cable connecting analyser to PC
- ·Basic system case for analyser, probes and accessories

Part no. 0563 3324 75

Part no. Demo version easyheat and easyheat.mobile. Demo version of PC and Pocket PC software, 30 day test 0554 1212 easyheat PC analysis software, shows measurement in form of diagrams, tables and manages customer data. Please order USB cable 0449 0047 separately. 0554 3332 Update: easyheat, mobile. Software for Pocket PC for mobile 0554 1211 applications. Only for customers who already have easyheat PC software in use. Full version easyheat and easyheat.mobile. Software package for PC and Pocket PC. Please order USB cable 0449 0047 0554 1210 Accessories Ordering data Part no. USB connection cable, instrument to PC 0449 0047

Testo IrDA printer with bidirectional IrDA interface and rech

battery, for communication between 330 LL and Pocket PC

Spare thermal paper for printer (6 rolls), permanent ink

· testo 3 · Power · Moduli · Combri · Hose 0 · Fast-a

The new testo 330-2 LL communication set

testo 330-2 LL flue gas analyser with rech. battery and calibration protocol

Power pack 100-240 V for mains operation or battery recharging in analyser

·Modular flue gas probe, 300 mm immersion depth, ø 8 mm

· Combustion air temperature probe, 190 mm long

· Hose connection set for separate gas pressure measurement

·Fast-action IrDA printer and rechargeable battery

 \cdot Full version: easyheat and easyheat.mobile

USB cable connecting analyser to PC

Basic system case for analyser, probes and accessories

Part no. 0563 3325 75



Accessories for testo 330-1/-2 LL

Retrofit: Oz LL sensor 0,554 3938 Petrofit: Oz LL sensor 0,554 3938 Petrofit: Oz LL sensor 0,554 3938 Petrofit: Oz LL sensor 0,554 3937 0,554 393	Instruments / Options / Upgrades		Part no.
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Option: NO sensor, mass, range 0 to 3000 ppm, 1 ppm resolution Retrofit: NO sensor, mass, range 0 to 3000 ppm, 1 ppm resolution Cython: NOw sensor, mass, range 0 to 3000 ppm, 1 ppm resolution Retrofit: NO sensor, mass, range 0 to 3000 ppm, 2 ppm resolution Retrofit: NO sensor, mass, range 0 to 3000 ppm, 2 ppm resolution Retrofit: NO sensor, mass, range 0 to 3000 ppm, 2 ppm resolution Cython: NOw sensor, mass, range 0 to 3000 ppm, 2 ppm resolution Retrofit: NO sensor sensor, ppm sensor se	testo 330-2 LL flue gas analyser with long-life gas sensors a	and built-in draught and gas zeroing, rech. batt. and calibration protocol included	0632 3305
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Versatile system case without sections, attachable to basic system case 0516 0331	Tools system case with tools section, without contents, attachable to basic system case		0516 0329
	Versatile system case without sections, attachable to basic system case		
	Measurement case (leather) with drawers for instruments and accessories		



Accessories for testo 330-1/-2 LL

Spare gas sensors					Part no.
O2 sensor for testo 330-1 LL/-2 LL					0390 0061
NOlow sensor 0 to 300 ppm for testo 330-1 LL/-2 LL					0390 0094
NO sensor 0-3000 ppm for testo 330-1 LL/-2 LL					0390 0074
CO sensor (without H2 compensation) for testo 330-1 LL					0390 0110
CO sensor (H2 compensated) for testo 330-2 LL					0390 0090
Retrofit: NOlow sensor, meas. range 0 to 300 ppm, 0.1 ppm resolution for	or testo 330-1	LL/-2 LL			0554 3931
Probes					Part no.
Flue gas probe, 180 mm long, Ø 8 mm, Tmax 500 °C, TUV approval					0600 9760
Flue gas probe, 300 mm long, Ø 8 mm, Tmax 500 °C, TÜV approval	,	Modular flue gas probes, available in 2 lengths, incl. probe stop for positioning, NiCr-Ni thermocouple, 2.2 m hose and particle filter			0600 9761
Flue gas probe, 180 mm long, Ø 6 mm, Tmax 500 °C					0600 9762
Flue gas probe, 300 mm long, Ø 6 mm, Tmax 500 °C					0600 9763
Flexible flue gas probe, 330 mm long, Tmax. 180 °C, short-term 200 °C,	bending radius	s max. 90° for measuring	g at inaccessible p	oints	0600 9764
Probe accessories					Part no.
Probe shaft, 180 mm long, Ø 8 mm, Tmax 500 °C					0554 9760
Probe shaft, 180 mm long, Ø 6 mm, Tmax 500 °C					0554 9762
Probe shaft, 300 mm long, Ø 8 mm, Tmax 500 °C					0554 9761
Probe shaft, 300 mm long, Ø 6 mm, Tmax 500 °C					0554 9763
Probe shaft, 335 mm long, with probe stop, Ø 8 mm, Tmax 1000 °C					0554 8764
Probe shaft, 700 mm long, with probe stop, Ø 8 mm, Tmax 1000 °C					0554 8765
Flexible probe shaft, 330 mm long, Ø 10 mm, Tmax 180 °C					0554 9764
Multi-hole probe shaft, 180 mm long, Ø 8 mm, for mean CO calculation					0554 5763
Multi-hole probe shaft, 300 mm long, ∅ 8 mm, for mean CO calculation					0554 5762
Hose extension, 2.8 m, extension cable for probe and analyser					0554 1202
6 mm probe stop, PTFE, with spring clamp and handle, Tmax 200 °C					0554 3327
8 mm probe stop, PTFE, with spring clamp and handle, Tmax 200 °C				0554 3328	
6 mm, probe stop, steel, with spring clamp and handle, Tmax 500 °C				0554 3329	
3 mm probe stop, steel, with spring clamp and handle, Tmax 500 °C					0554 3330
Additional probes		Meas. range	Accuracy		Part no.
Dual wall clearance probe for O2 supply air measurement					0632 1260
Gas leak probe		0 to +10000 ppm CH ₄ / C	sH ₈		0632 3330
Ambient CO probe		0 to +500 ppm CO	±5% of mv (+100.1 t ±5 ppm CO (0 to +1)	00 ppm CO)	0632 3331
Ambient CO2 probe		0 to +1 Vol. % CO ₂ 0 to +10000 ppm CO ₂	±(50 ppm CO ₂ ±2% +5000 ppm CO ₂) ±(100 ppm CO ₂ ±3% to +10000 ppm CO ₂	of mv)(0 to of mv)(+5001	0632 1240
Connection cable					0430 0143
Combustion air temperature probe					Part no.
Combustion air temperature probe, immersion depth 300 mm					0600 9791
Combustion air temperature probe, immersion depth 190 mm					0600 9787
Combustion air temperature probe, immersion depth 60 mm		NA	A = 0.00	400	0600 9797
Additional temperature probes Mini ambient air probe		Meas. range	Accuracy	t99	Part no. 0600 3692
Pipe wrap probe for pipes with diameter of up		60 to 1120 °C	Class 2	5.0	0600 4593
to 2", for flow/return temp. meas. in hydronic systems		-60 to +130 °C	Class 2	5 s	Conn.: Fixed cable
Quick-action surface probe	150 mm Ø 10 mm	-200 to +300 °C	Class 2	3 s	0604 0194 Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required
Connection cable					0430 0143

CONTACT INFORMATION

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