

The new testo 330 LL visualizes measurement data graphically

Understand flue gas analysis at a glance



| |
|-------------------|
| °C |
| hPa |
| O ₂ |
| CO/H ₂ |
| NO |
| ΔP |



L 4 years' warranty on instrument and probes

The new flue gas analyzer testo 330 LL visualizes measurement data graphically

Independently of the technology used, every combustion system must function optimally. More than ever, requirement-based heat provision, low energy consumption and reduced pollutant emission are of central significance. In order to be able to exploit existing optimization potential as well as possible, regular testing and adjustment of the heating system is necessary. The new Testo flue gas analyzers testo 330-1 LL and testo 330-2 LL offer even more professional support in this thanks to new instrument functions.




The new colour graphic display of the flue gas analyzer testo 330 LL visualizes the measurement data graphically:

Self-explanatory graphic curves as well as easy symbols and clear colour design ease the analysis of the measurement data considerably.

The flue gas matrix

The central element of the new graphic processing of the measurement data is the flue gas matrix.

 In the course of the flue gas measurement, this shows whether the CO and O₂ values, as well as other measurement parameters, are in the green, permitted range, and the heating system is thus optimally adjusted.

Thumb symbols instantly show the status of the system. If the CO and O₂ concentrations measured are in the green range, the thumbs point up.

If the recorded measurement values are not within the optimum range, the symbols of the flue gas matrix provide important information for the required adjustment of the heating system.



Bad combustion – the CO concentration is over the defined limit value, the recorded CO content is not within the ideal range



Measurement value is not acceptable – the CO and O₂ concentrations are considerably too high, the measurement values do not correspond to the prescribed norms and limit values

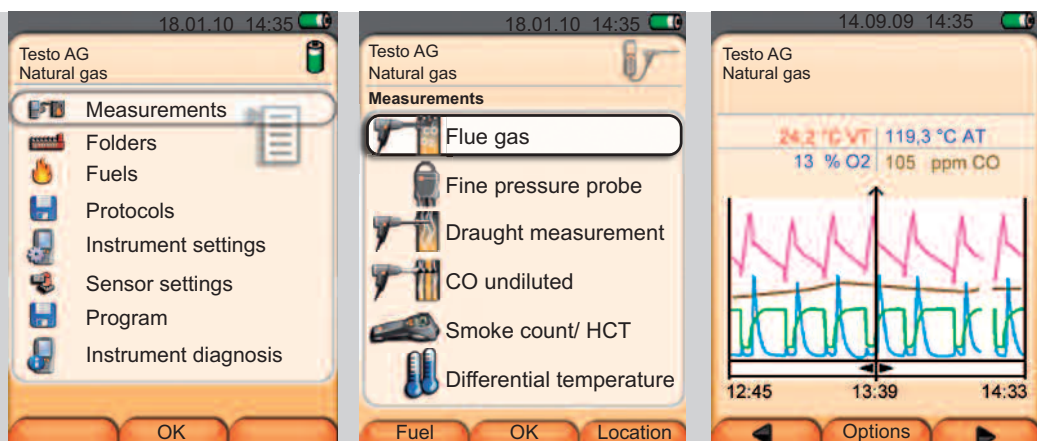


High loss – the O₂ concentration is over the defined limit value, the heating system is not working efficiently

Understand flue gas analysis at a glance

The advantages of the new flue gas analyzer testo 330 LL:

- High-resolution colour display for the graphic representation of your measurement data
- Extended measurement menus, such as Solid fuel measurement and Tightness testing allow comprehensive analysis of the heating system
- Logger function for easy long-term recording of the measurement curve



Main menu – select adjustment function

Select one of the pre-set measurements

Measurement data can be graphically visualized and quickly analyzed

The measurement menus – the right menu for every measurement task:

| | | |
|---------------------|--------------------------|-------------------------|
| Flue gas | Smoke number/HCT | Oil flow rate |
| Draught measurement | Differential pressure | CO ambient |
| Fine pressure probe | Differential temperature | CO ₂ ambient |
| BlmSchV | O ₂ input air | Automatic burner |
| CO undiluted | Gas flow rate | Gas pipe tests |

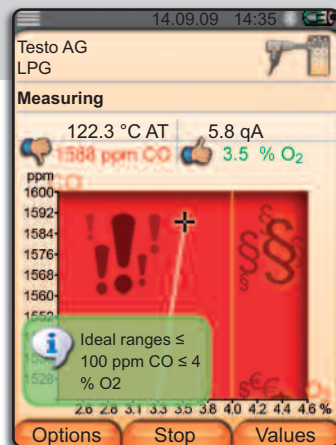
Further advantages of the flue gas analyzer testo 330 LL: The new instrument design

Thanks to the new colour design and the materials used, the instrument is also suitable for use in rough and dirty surroundings.



Typical measurement menus

Extended measurement menus allow a comprehensive analysis of the heating system. These five typical measurement tasks illustrate how clearly the measurement data are presented in the display:



The CO concentration is in the range of bad combustion. The instrument provides information on the ideal range.

Flue gas measurement...



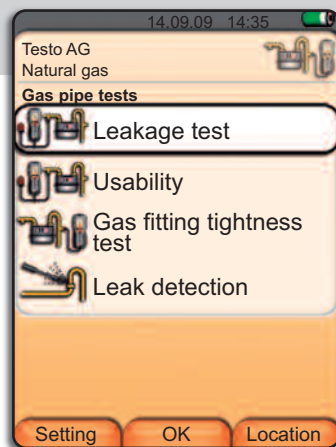
is the central measurement in flue gas analysis. By determining the main values, CO and O₂, as well as other measurement parameters, a judgement can be made as to whether your heating system is properly adjusted or whether there is a need for optimization.

Different display options offer the right presentation of the measurement values, depending on requirements:

- 4- to 8-line as numerical values
- 4 measurement values simultaneously presented in a line graph
- Main values O₂ and CO, as well as further measurement values, graphically displayed as a flue gas matrix

Advantages of the new flue gas matrix:

- The flue gas matrix acts as an adjustment assistant for the main values O₂ and CO
- The optimization of the adjustment is much easier – the interpretation of the numerical values is no longer necessary
- Thanks to the trend display, the measurement curve can be followed exactly, and the measurement point precisely determined.
- The automatic zoom function provides an enlarged and clear display of the current detail of the flue gas matrix



The four measurements for testing the gas pipe

The gas pipe test...



is divided into 4 measurements which guarantee a comprehensive test of the gas pipe: Gas tightness test, usability test, gas fitting tightness test and leakage detection. After selecting the desired measurement, the testo 330 LL begins directly with the corresponding gas pipe check. A separate gas leak detection probe is required for leakage detection. The gas tightness test can be conducted over a period of 10 minutes. The gas fitting tightness test is conducted over a period of one minute directly under operating conditions.

Advantages of the new testo 330 LL:

- Thanks to prescribed measurement procedures, the desired test can be conducted quickly and easily
- The testo 330 LL leads the user through the measurement step by step, presenting the the corresponding information in the display
- The measurement data are displayed in easy and clear diagrams



The result of the measurement: a negative pressure exists (-4.31 hPa)

The draught measurement...

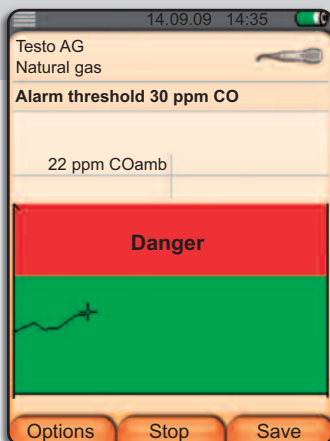
begins directly after the selection of the corresponding measurement menu. After the zeroing of the pressure sensor, the determination of the differential pressure between the surroundings and the flue takes place.



Display view in the course of the measurement during sensor zeroing

Advantages of the new testo 330 LL:

- Graphically supported measurement menu for the determination of the flue draught with parallel core flow search
- Thanks to the integrated switchover valve technology, the testo 330-2 LL can remain in the flue during zeroing.
- In the testo 330-1 LL, the probe must be removed from the flue for zeroing
- The set alarm threshold will be shown directly on the display



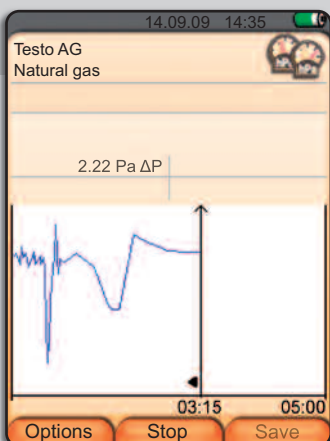
The CO concentration is in the permitted range. The alarm threshold is not exceeded

The CO environment measurement...

determines the CO concentration in the ambient air. The measurement is presented in a simple graph. If the CO concentration is in the green range, the recorded concentration is permitted and the alarm threshold is not exceeded. The red danger range indicates a too high, not permitted CO concentration.

Advantages of the new testo 330 LL:

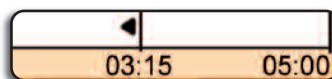
- Easy, graphic presentation of the adjustable alarm thresholds
- With the help of the trend display, the measurement curve can be followed
- The cursor marks the current CO concentration
- The instrument not only indicates the violation of the alarm threshold optically, it also provides an audible alarm



Line diagram of the differential pressure ΔP in a period of 3:15 mins

The differential pressure measurement ΔP ...

takes place after selection of the measurement menu "Differential pressure". After setting up the pressure difference required for the measurement, the measurement curve can be followed directly in the display over a defined period.

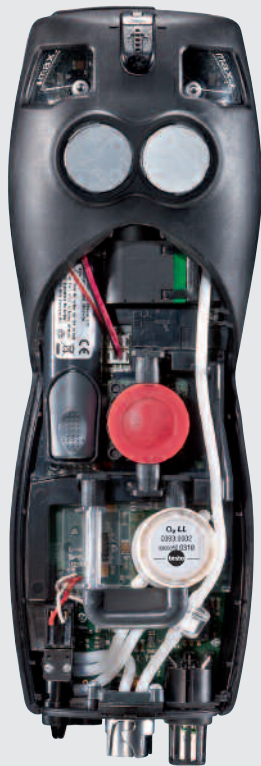


Continuous measurement of the differential pressure ΔP over e. g. 5 mins

Advantages of the new testo 330 LL:

- The measurement curve of the differential pressure measurement can be followed directly in the line diagram
- Using the logger function, the measurement curve can be recorded over a defined period of up to 120 minutes



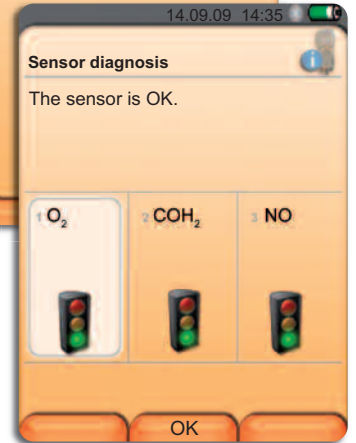
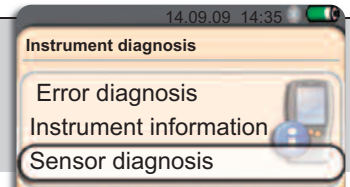


The sensor diagnosis – long life with even more security

Thanks to the extended sensor life of up to 6 years for O₂ and CO in the testo 330 LL, the follow-on costs for the user are drastically reduced. At least one O₂ and CO sensor replacement is saved during the course of the typical phase of use of the instrument. In addition to this, Testo gives 4 years' warranty on the complete instrument (testo 330-2 LL incl. O₂ and CO sensors and probe).

The O₂ long-life sensor stands out against the standard sensor through a more stable design, an improved diffusion barrier to protect the anode material and a lead-free metal alloy. It is therefore not only more durable but also more environmentally friendly.

Exception: Wearing parts such as filter, thermocouple (12 months) NO/CO_{low} sensor (24 months)



The graphic-capable display allows sensor diagnosis with traffic light presentation



The fine pressure probe – highest accuracy in the Pascal range

The fine pressure probe is directly connected to the flue gas analyzer testo 330 LL. The different measurement menus and the measurement results are shown in the display of the testo 330 LL.

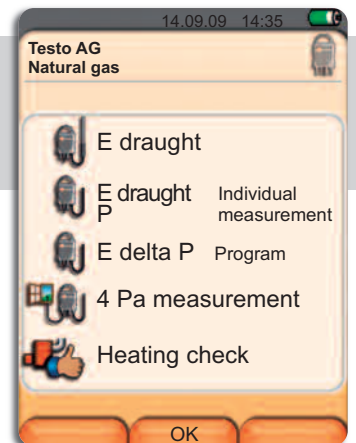
Simultaneous gas pressure measurement and flue gas analysis is possible with the fine pressure probe. The gas pressure measurement can be carried out in logger operation, thus conducting a long-term measurement.

The following menus with buffer stores are available:

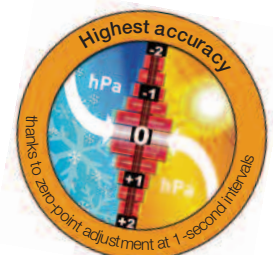
- parallel draught measurement
- parallel ΔP measurement
- 4Pa measurement
- heating check

Thanks to the zero point calibration at 1 second intervals, external temperature influences have no effect on the measurement value.

For the measurement of the ambient temperature or the surface temperature, an additional temperature probe can be connected.



The instrument firmware and the "easyheat" software are retro-fittable free of charge: www.testo.com/easyheat/Update.



The fine pressure probes can easily be attached at any measurement site – by loop or magnet



Easy, mobile data management for flue gas analysis

The software package **testo easyheat** and **easyheat.mobile**

The new top technology in flue gas measurement: the instrument series **testo 330 LL** with extended sensor life communicates not only with a PC, but also with a Pocket PC. Different software packages give the customer the possibility of adapting the **testo 330 LL** exactly to his communication needs.

With the help of the PC software **easyheat**, the management of customer data, as well as the measurement sites and the already completed measurements, can be carried out easily on a PC at home.

The Pocket-PC-Software **easyheat.mobile** supports wireless communication to Windows Mo-

bile appliances. This allows wireless transfer of measurement data to a mobile appliance on site.

Printout of the data from a Pocket PC or directly from the measuring instrument takes place via the IrDA/Bluetooth printer.



Bluetooth®
Wireless transfer*

*Country permits **BLUETOOTH®** wireless transfer for the smoke tester **testo 308** and the flue gas analyzer **testo 330 LL**.

The **BLUETOOTH®** wireless module used by Testo has permits for the following listed countries, and can only be used in those countries, i. e. **BLUETOOTH®** wireless transfer may not be used in any other country!

Europe including all EU member states

Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and Turkey

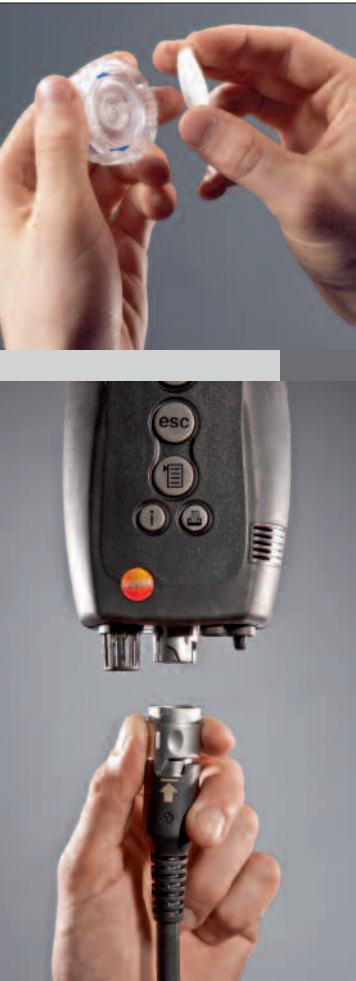
European countries (EFTA)

Iceland, Liechtenstein, Norway and Switzerland

Non-European countries

Ukraine, Colombia and El Salvador

The probes – the right accessories for every application



The robust and easy-to-hold probe handle makes positioning easier. The probe has a quick-release fastener. This ensures that all gas paths are connected and confusion is impossible. The dirt filter housed in the handle reliably filters out dirt. In addition, the probes are extremely easy to look after and easy to clean. A range of lengths and diameters ensure a high degree of flexibility for all applications. On replacement, the probe shaft is simply placed on the probe handle and it engages. Multi-hole and annular gaps probes complete the line of flue gas probes. Both the ambient CO probe and the CO₂ probe are automatically detected

by the instrument and the measuring results appear immediately in their own respective graphically supported menu. Moreover, the adjustable alarm threshold is linked to an acoustic signal.

The entire scope of measurements during checks can be carried out alongside the flue gas measurement.

The gas leak detection probe that can be connected to the instrument also has an adjustable alarm threshold; a warning tone is emitted if it is exceeded. The probe is also detected automatically and

the results are shown as a graphic trend display in a dedicated menu.

Thanks to the integration of the gas tightness test into the measurement menu, all relevant tests on gas pipes can be conducted without a separate measuring instrument – the new testo 330 LL integrates the gas tightness test. All that is required for this is the connection of the pressure set for gas pipe tests to the testo 330 LL. The testo 330 LL guides the user through the entire measurement, and facilitates it by the graphic processing of the measurement data.



The flue gas analyzer testo 330-1 LL at a glance

The testo 330 LL is the reliable companion -- whether in cases of malfunction or emergency, when monitoring legally set limit values, or in day-to-day maintenance work.

New features of the testo 330 LL:

- Colour graphic display with 240 x 320 Pixel
- Graphic processing of measurement data
- New instrument design
- Instrument diagnosis function uses easy „traffic light” presentation to enable comprehensive error diagnosis, diagnosis of sensors and the call-up of instrument information such as the filling level of the condensate trap and the battery status
- Logger function for long-term measurements
- New measurement menus: Gas pipe test and solid fuel measurement for CO / O₂
- Pressure measurement up to 300 mbar
- User-defined fuels

Other features:

- Reduced follow-on costs thanks to LL sensors with 4 years' guarantee
- Life expectancy up to 6 years (O₂ / CO)
- At least 1 sensor replacement is saved in the course of a normal working life
- Powerful Li-ion rechargeable battery - life: >10 h with pump running, no memory effect, no deep discharge
- Rechargeable battery can be charged separately and in instrument
- TÜV-tested according to 1. BImSchV / EN 50379 Part 2 for O₂, °C, hPa and CO with H₂-compensation

A measuring instrument with great ease of communication:

- Powerful memory management: 500,000 readings
- IrDa/ Bluetooth interface for data transfer to Pocket-PC / laptop / printer
- USB interface for data readout to a PC software
- ZIV (Central Guild Association) driver for all standard industry software packages

Only for testo 330-2 LL

- In CO measurement, from 8.000 ppm, automatic dilution is carried out up to min. 30.000 ppm CO
- Integrated gas and draught zeroing without probe removal: The probe can remain in the flue during zeroing



* Exceptions: Typical wearing parts:
Rechargeable battery and
thermocouple (1 year) NO/CO_{low} sensor
(2 years), filter

The longlife sets with the new flue gas analyzer testo 330 LL

In order to simplify selection, Testo has assembled special sets. These can of course be extended at any time from the wide selection of accessories.



Illustration may differ from original

New testo 330-1 LL flue gas analyzer – Ordering suggestion

The Longlife set for heating constructors and fitters

Flue gas analyzer testo 330-1 LL (O₂ and COH₂) incl. Bluetooth, rech. battery and calibration protocol

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

Combustion air temperature probe, immersion depth 190 mm

Hose connection set for separate gas pressure measurement

testo Bluetooth printer with mains unit

Basic system case flat

Flue gas probe length 300 mm, Ø 8 mm, Tmax. 500 °C



EN 50379-2 and 1. BImSchV



New testo 330-2 LL flue gas analyzer – Ordering suggestions

The Longlife set for customer service and maintenance technicians

Flue gas analyzer testo 330-2 LL (O₂ and COH₂) incl. Bluetooth, rech. battery and calibration protocol

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

Combustion air temperature probe, immersion depth 190 mm

Hose connection set for separate gas pressure measurement

testo Bluetooth printer with mains unit

Basic system case flat

Flue gas probe length 300 mm, Ø 8 mm, Tmax. 500 °C



EN 50379-2 and 1. BImSchV



The Longlife set for inspectors

Flue gas analyzer testo 330-2 LL (O₂ and COH₂) incl. Bluetooth, rech. battery and calibration protocol

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

Combustion air temperature probe, immersion depth 190 mm

Smoke tester testo 308

Soot pump holder

Flue gas probe length 300 mm, Ø 8 mm, Tmax. 500 °C

Basic system case with double floor for instrument, probes and further accessories

The Longlife set for service technicians and inspectors with fine pressure probe

Flue gas analyzer testo 330-2 LL (O₂ and COH₂) incl. Bluetooth, rech. battery and calibration protocol

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

Combustion air temperature probe, immersion depth 190 mm

testo Bluetooth printer with mains unit

Easyheat software testo 330 for PC

USB connection cable, instrument-PC

Flue gas probe length 300 mm, Ø 8 mm, Tmax. 500 °C

Fine pressure probe

Capillary hoses

Surface probe angled 90°

Connection cable for surface probe

Straight Pitot tube

Heating check retrofit CD

Basic system case with double floor for instrument, probes and further accessories



The gas pipe test



The gas pipe test is integrated in the testo 330 LL (see ill.). Order accessory 0554 1213.

Technical data

| | | | |
|-----------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| | Temperature | Meas. range | -40 to +1200 °C |
| | | Accuracy | ±0.5 °C (0.0 to +100.0 °C) ±0.5 % of mv (remaining range) |
| | | Resolution | 0.1 °C (-40 to 999,9 °C) 1 °C (remaining range) |
| | Draught measurement | Meas. range | -9.99 to +40 hPa |
| | | Accuracy (the greater value applies) | ±0.02 hPa or ±5% of mv (-0.50 to +0.60 hPa) ±0.03 hPa (+0.61 to +3.00 hPa) ±1.5% of mv (+3.01 to +40.00 hPa) |
| | | Resolution | 0.01 hPa |
| | Pressure measurement | Meas. range | 0 to 300 hPa |
| | | Accuracy | ±0.5 hPa (0.0 to 50.0 hPa) ±1% of mv (50.1 to 100.0 hPa) ±1.5 % of mv (remaining range) |
| | | Resolution | 0.1 hPa |
| | O₂ measurement | Meas. range | 0 to 21 Vol. % |
| | | Resolution | 0.1 Vol. % |
| | | Accuracy | ±0.2 Vol. % |
| | | Adjustment time t ₉₀ | < 20 s |
| testo 330-1 LL | CO measurement (without H₂ compensation) (testo 330-1 LL) | Meas. range | 0 to 4000 ppm |
| | | Resolution | 1 ppm |
| | | Accuracy | ±20 ppm (0 to 400 ppm) ±5% of mv (401 to 1000 ppm) ±10% of mv (1001 to 4000 ppm) |
| | | Adjustment time t ₉₀ | < 60 s |
| testo 330-2 LL | CO measurement (H₂-compensated) (testo 330-2 LL) | Meas. range | 0 to 8000 ppm |
| | | Resolution | 1 ppm |
| | | Accuracy | ±10 ppm or ±10% of mv (0 to 200 ppm) ±20 ppm or ±5% of mv (201 to 2000 ppm) ±10% of mv (2001 to 8000 ppm) |
| | | Adjustment time t ₉₀ | < 60 s |
| | from 8000 ppm | Display area | 8000 to 30.000 ppm (automatic dilution) |
| | | Resolution | 500 ppm |
| | Efficiency (ETA) | Meas. range | 0 to 120% |
| | | Resolution | 0.1% |
| | Flue gas loss | Meas. range | 0 to 99.9% |
| | | Resolution | 0.1% |
| | CO₂ measurement | Display range | 0 to CO ₂ max |
| | | Resolution | 0.1 Vol. % |
| | | Accuracy | ±0.2 Vol. % |
| | | Measurement | Digital calculation from O ₂ |
| | | Adjustment time t ₉₀ | < 40 s |
| | Option: CO_{low} measurement | Meas. range | 0 to 500 ppm |
| | | Resolution | 0.1 ppm |
| | | Accuracy | ±2 ppm (0.0 to 40.0 ppm) ±5% of mv (remaining range) |
| | | Adjustment time t ₉₀ | < 30 s |
| | Option: NO measurement | Meas. range | 0 to 3000 ppm |
| | | Resolution | 1 ppm |
| | | Accuracy | ±5 ppm (0 to 100 ppm) ±5% of mv (101 to 2000 ppm) ±10% of mv (2001 to 3000 ppm) |
| | | Adjustment time t ₉₀ | < 30 s |
| | Ambient CO measure- ment (with CO probe) | Meas. range | 0 to 500 ppm |
| | | Resolution | 1 ppm |
| | | Accuracy | ±5 ppm (0 to 100 ppm) ±5% of mv (>100 ppm) |
| | | Adjustment time t ₉₀ | Approx. 35 s |
| | Gas leak measure- ment for combustible gases (with gas leak detection probe) | Range of indication | 0 to 10,000 ppm CH ₄ / C ₃ H ₈ |
| | | Signal | Optical display (LED) audible display via buzzer |
| | | Adjustment time t ₉₀ | < 2 s |
| | Ambient CO₂ measure- ment (with ambient CO₂ probe) | Meas. range | 0 to 1 Vol. % 0 to 10.000 ppm |
| | | Accuracy | ±(50 ppm ±2% of mv) (0 to 5000 ppm) |
| | | Adjustment time t ₉₀ | Approx. 35 s |
| | General Technical Data | Memory | 500.000 readings |
| | | Weight | 600 g (without rechargeable battery) |
| | | Dimensions | 270 x 90 x 65 mm |
| | | Storage temp. | -20 to +50 °C |
| | | Oper. temp. | -5 to +45 °C |
| | | Display | Colour graphic display with 240 x 320 Pixel |
| | | Power supply | Rechargeable battery pack 3.7 V / 2.6 Ah Mains unit 6 V / 1.2 A |
| Warranty | | Instrument/probe/gas sensors (O ₂ , CO) | 48 months |
| | | NO, CO _{low} sensor | 24 months |
| | | Thermocouple and rech. battery | 12 months |

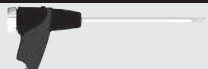









Quick order fax

| Qty. | Measuring instruments with options | Part no. |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| | testo 330-1 LL flue gas analyzer with longlife gas sensors, incl. rech. battery and calibration protocol | 0632 3306 |
| | testo 330-2 LL flue gas analyzer with longlife gas sensors with integrated draught and gas zeroing, incl. rech. battery and calibration protocol | 0632 3307 |
| | Option: Fine draught measurement, rResolution 0.1 Pa, measurement range to 100 Pa (instead of the standard draught measurement) | |
| | Option fine differential pressure measurement | |
| | Option: NO sensor, meas. range 0 to 3000 ppm, 1 ppm resolution | |
| | Option H ₂ -compensated CO cell | |
| | Option CO _{low} sensor | |
| | Option Bluetooth | |
| Qty. | Spare gas sensors | Part no. |
| | O ₂ sensor for testo 330-1 LL/-2 LL | 0393 0002 |
| | CO sensor (without H ₂ compensation) for testo 330-1 LL | 0393 0051 |
| | CO sensor (H ₂ -compensated) for testo 330-2 LL | 0393 0101 |
| | CO _{low} sensor 0 to 300 ppm for testo 330-1 LL/-2 LL | 0393 0103 |
| | NO sensor 0 to 3000 ppm for testo 330-1 LL/-2 LL | 0393 0151 |
| | Retrofit NO sensor, measuring range 0 to 3000 ppm, resolution 1 ppm, for testo 330-1 LL | 0554 2151 |
| | Retrofit CO _{low} sensor, Measuring range 0 -to 300 ppm, resolution 0.1 hPa, for testo 330-1 LL/-2 LL | 0554 2103 |
| Qty. | Accessories | Part no. |
| | 100-240 V AC / 6.3 V DC international mains unit, for mains operation or battery charging in instrument | 0554 1096 |
| | Spare battery 2600 mA | 0515 0107 |
| | Charger for spare battery | 0554 1103 |
| | Testo fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries | 0554 0549 |
| | BLUETOOTH® printer set with wireless Bluetooth interface, incl. 1 roll thermal paper, rechargeable battery and mains unit | 0554 0553 |
| | Spare thermal paper for printer (6 rolls), permanent ink | 0554 0568 |
| | Readout adapter for automatic furnaces | 0554 1206 |
| | Adhesive pockets (50 off) for printout, paper barcode labels... | 0554 0116 |
| | Instrument cleaner (100 ml) | 0554 1207 |
| | Smoke tester with oil, soot sheet, for measuring soot in flue gas | 0554 0307 |
| | Hose connection set for separate gas pressure measurement | 0554 1203 |
| | Pressure set for testing gas line | 0554 1213 |
| | Differential temperature set consisting of 2 pipe clamp probes and adapter | 0554 1204 |
| | Spare particle filter (10 off) for probe handle | 0554 3385 |
| | easyheat PC analysis software, shows measurement in form of diagrams, tables and manages customer data. Please order USB cable 0449 0047 separately. | 0554 3332 |
| | Full version EasyHeat + EasyHeat Mobile (for PC und PDA) | 0554 1210 |
| | USB connection cable, instrument to PC | 0449 0047 |
| | ISO calibration certificate/flue gas | 0520 0003 |

CONTACT INFORMATION

GasTech Australia Pty Ltd
 24 Baretta Rd
 Wangara Western Australia 6065
 Tel 1800 999 902
 Fax 1800 999 903
<http://www.gastech.com.au>

| Qty. | Cases | Part no. |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| | Basic system case for analyzer, probes and accessories | 0516 3330 |
| | Basic system case with two levels for analyser, probes and additional accessories | 0516 3331 |
| | Tools system case with tools section without content, can be interlocked to basic system case | 0516 0329 |
| | Universal system case w/o pockets, can be interlocked to basic system case | 0516 0331 |
| | Measurement case (leather) with drawers for instruments and accessories | 0516 0303 |
| Qty. | Probes | Part no. |
| | Modular flue gas probes, available in 2 lengths, incl. positioning cone, NiCr-Ni thermocouple, 2.2 m hose and particle filter |  |
| | Flue gas probe, 180 mm long, Ø 8 mm, Tmax 500 °C, TÜV approval | 0600 9760 |
| | Flue gas probe, 300 mm long, Ø 8 mm, Tmax 500 °C, TÜV approval | 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 max. 90° for measuring at inaccessible points | 0600 9764 |
| Probe accessories | | |
| | 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, 300 mm long, Ø 8 mm, for mean CO calculation | 0554 5762 |
| | Multi-hole probe shaft, 180 mm long, Ø 8 mm, for mean CO calculation | 0554 5763 |
| | Hose extension, 2.8 m, extension cable for probe and analyser | 0554 1202 |
| | 8 mm probe stop, steel, with spring clamp and handle, Tmax 500 °C | 0554 3330 |
| | 6 mm, probe stop, steel, with spring clamp and handle, Tmax 500 °C | 0554 3329 |
| Additional probes | | |
| | Dual wall clearance probe for O ₂ supply air measurement |  0632 1260 |
| | Gas leak probe |  0632 3330 |
| | Ambient CO probe |  0632 3331 |
| | Ambient CO2 probe |  0632 1240 |
| | Connection cable | 0430 0143 |
| | Fine pressure probe for testo 330 LL |  0638 0330 |
| Combustion air temperature probe | | |
| | 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 | 0600 9797 |
| Additional temperature probes | | |
| | Mini ambient air probe | 0600 3692 |
| | Pipe clamp probe |  0600 4593 |
| | Quick-action surface probe |  0604 0194 |
| | Connection cable | 0430 0143 |

Sender

| | |
|------------------------|-------------------|
| First name and surname | Street, No. |
| Company | Postal code, city |
| Department | Date, signature |