



testo 330-1 LL, -2 LL
Flue gas analyzer

Brief instructions

en-US

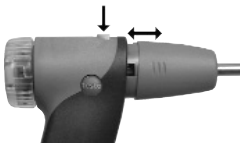
These brief instructions provide an overview over the most important functions of the product. Before using the product you should absolutely read and follow the operating instructions! This document describes the products testo 330-1 LL and testo 330-2 LL with the device setting **Country version | USA**.

Device connections



- ① **Sensor socket:** Connect the sensor before switching the measuring instrument on or, after changing a sensor, switch the instrument off and on again.
- ② **Flue gas socket:** It is possible to change a probe / sensor even while the measuring instrument is switched on.
- ③ **Mains unit socket**
- ④ **Pressure socket**

Replacing the probe module



- 1 Press the key on top of the probe handle and remove the probe module.
- 2 Plug in the new probe module and engage it in place.

Emptying the condensate trap

! The condensate consists of a weak mix of acids, avoid contact with the skin. Make sure that the condensate does not run over the housing.



Do not drain the condensate trap while the flue gas pump is running!



- 1 Hold the instrument with the condensate outlet pointing up.
- 2 Open the condensate outlet on the condensate trap: Pull out approx. 5mm against the stop (①).



- 3 Let the condensate run out into a sink (②).
- 4 Dab off any remaining drops on the condensate outlet with a cloth.
- 5 Close the condensate outlet.

! The condensate outlet must be completely closed (marking), as otherwise measuring errors could be caused by infiltrated air.

Key functions

- ▶ **Switching the measuring instrument on/off:** .
- ▶ **Back, cancel function:** .
- ▶ **Save data to the clipboard:** → (only available when saving to clipboard is possible).
- ▶ **Saving data:** → (only available when saving is possible). Data in the clipboard will also be saved.
- ▶ **Printing data:** (only available when printing is possible, the printer to be used must be enabled). Data in the clipboard will also be printed out.
- ▶ **Calling up a function:** Select function: , and confirm selection: .

Enter value

List field:

- 1 Select value (numerical value, unit): , and set: , .
- 2 Confirm input: .

Input editor:

- 1 Select value (character): , , , .
- 2 Accept value: .
- 3 Save data: .

Enter smoke pump no./smoke tests/oil derivative/heat carrier temperature

- 1 → **Measurements** → → **Smoke number/HCT** → .

Steps 2 to 4 are only valid if the chosen fuel is an oil.



- 2 **Smoke pump number** → → Enter pump number → .
- 3 **SmNum 1** → → Enter value → .
- 4 Perform step 3 for further smoke tests and oil derivative accordingly.
- 5 **Heat carrier temperature** → → Enter value → .
- 6 Save data: → .

Perform draft measurement



A flue gas probe must be connected.




The pressure socket of the instrument must be free (i.e. unpressurized, not closed).

- 1  → **Measurements** → → **Draft measurement** → .
- 2 Start measurement .
- Draft zeroing (5s).
- 3 Position the flue gas probe in the hot spot (area of the highest flue gas temperature).
The display showing the maximum measured flue gas temperature (**FT max**) helps when positioning the probe.
- The reading is displayed.
- 4 End measurement: .
- 5 Save data to clipboard: → or .

Perform flue gas measurement

- 1  → **Measurements** → → **Flue gas** → .
- Possibly: Gas zeroing (30 s).
- 2 Select fuel → .
 - 3 Start measurement .
 - 4 End measurement: .
 - 5 Save data to clipboard: → or .

Creating a new site

- 1  → **Folder/Site** → .
- 2 → **New site** → .
- 3 **Select site** → .
- 4 Enter data → .
- 5 Perform steps 3 and 4 for further criteria accordingly.
- 6 .

Enabling site

- 1  → **Folder/Site** → .
- 2 Select site → .
- The site is enabled and the menu **Measurements** is opened.

