sauermann®

SI-CA 130 / SI-CA 230

Quick Start Guide

EN FR ES PT IT DE ZH

OneTemp pty ltd
MEASURE | CONTROL | RECORD

www.sauermanngroup.com

CE

English

Quick start guide

- These operating instructions describe the basic handling of the device.
- Please refer to the operating instructions available at www.sauermanngroup.com for safe use of the product and detailed information.
- Do not give this device to a child.
- The magnets in the back of the instrument can damage credit cards, hard drives, mechanical watches, pacemakers, defibrillators and other devices proven sensitive to magnetic fields. It is recommended to keep the instrument at a distance of at least 25 cm (10”) away from any of these devices.
- These gas analyzers are designed to measure flue gases exhausting from combustion equipment. They are not designed for continuous operations and/or use as a control/alarm system

The Si-CA 130 and Si-CA 230 analyzers are touchscreen devices with just the on/off button:

1 Before Using the Flue Gas Analyzer

WARNING!

- Be sure all connections are tight to assure accurate sampling.
- When conducting measurements, the water trap/filter assembly MUST be in a VERTICAL position.

Water trap OK

Water trap NOT OK

When testing is completed, always drain any accumulated condensation inside the water trap (after EVERY test!).
The condensate be slightly acidic, so avoid contact with skin and make sure condensate does not leak out of water trap.

2 Analyzers description

1. Min-DIN connection for CO and CO_2 probe
2. Thermocouple connection for air temperature
3. Thermocouple connection for flue gas temperature
4. P- connection
5. P+ connection
6. Gas connection
7. USB connection

3 Operating temperature, protection of the instruments and information about storage

- Operating temperature: from -5 to 45 °C (23 to 113 °F)
- Protection: IP42

If the instrument is stored outside the operating temperature (for example in a van, a warehouse,...) please let the analyzer acclimate to room temperature for at least 15 minutes before starting and operating the analyzer.

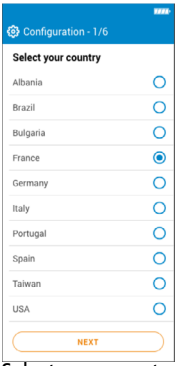
If the ambient temperature is lower than 10 °C (50 °F), the analyzer should be acclimated to ambient temperature before performing measurements.

4 First start-up

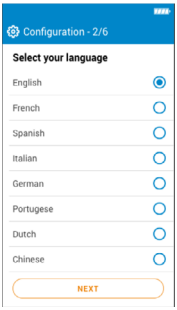
DO NOT insert the gas probe in the flue/chimney/stack.

Keep pressed for 3 seconds to turn on the analyzer.

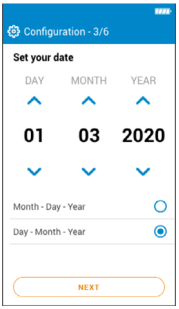
Tap "Start".



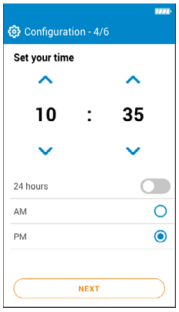
Select your country then tap "Next".



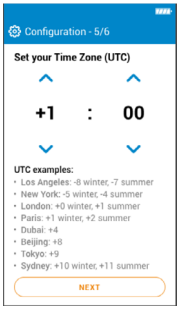
Select your language then tap "Next".



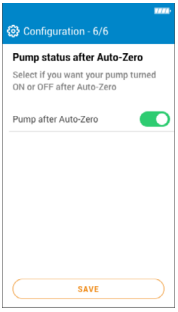
Set the date then tap "Next".



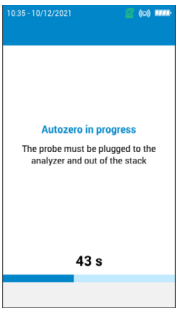
Set the time then tap "Next".



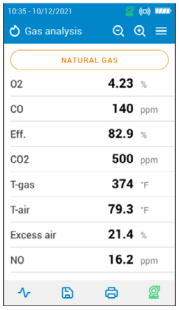
Set your time zone then tap "Next".



Select if you want your pump turned ON or OFF after Auto-Zero then tap "Save".



Autozero is in progess.

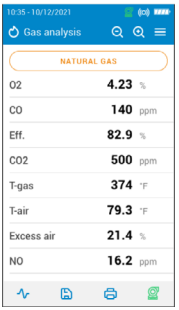


The probe can be inserted in the chimney.
The analyzer displays the measurements.

5 ON / OFF

During autozero DO NOT insert the gas probe in the chimney.

Keep pressed for 3 seconds to turn on the analyzer.
Once the autozero is finished, insert the gas probe in the chimney and gas measurments are displayed.



Keep pressed for 3 seconds to turn off the analyzer.
Before powering off, disconnect hoses from the analyzer and empty and dry the water trap.

6 Stop / Restart the Pump

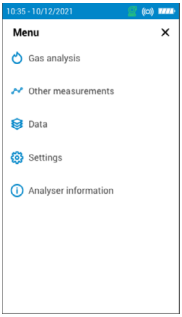
It is possible to turn off the pump during a gas analysis.

Tap . Pump is off and values are on hold.

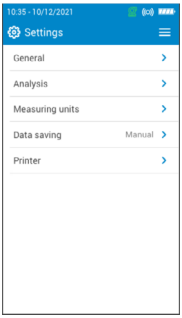
Tap . Pump is on and measurements re-start.

7 Combustion Analysis, Saving & Printing

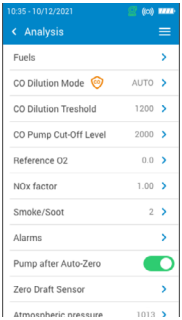
Before proceeding with the combustion analysis, remember to set the proper fuel.



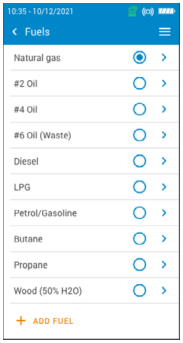
Tap "Settings".



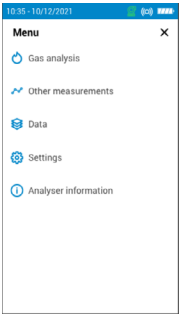
Tap "Analysis".



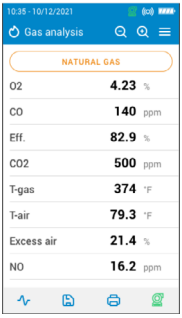
Tap "Fuels".



Tap the required fuel.



Once the required fuel is selected, tap then tap "Gas analysis".



Measurements of the gas analysis are displayed.

You can also quickly access the fuel selection menu via the fuel shown at the top of the combustion gas analysis screen

- To view the different measured parameters, just scroll the screen.
- To save combustion data, first tap on the Save icon then select or create a folder and tap on Save. The Sauermann Combustion mobile phone app and/or PC software can also be used to save data.
- To prints the results, use the Wireless Printer avalaible as option.

The **Sauermann Combustion app** lets you control your Si-CA analyzer remotely, view measurement results in real time, and customise them before exporting in the format of your choice.

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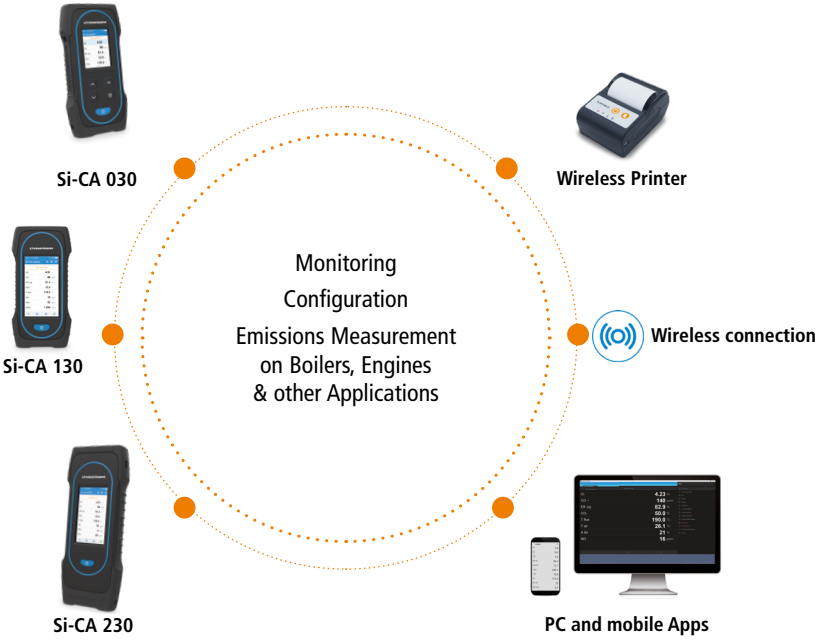

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