Sauermann[®]

Test Equipment Depot - 800.517.8431 - 5 Commonwealth Ave, Woburn, MA 01801 TestEquipmentDepot.com



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Apps and software

- Free apps for iOS & Android mobile devices
- PC software with USB & wireless connectivity
- Fast, easy wireless connection
- Remote live view of combustion analysis data as list or graph



- Remote control to change settings
- Data saving, including automatic logging
- Report creation in PDF, CSV (for Excel) and XML formats
- Databases for customers, operators, & equipment



Graph view

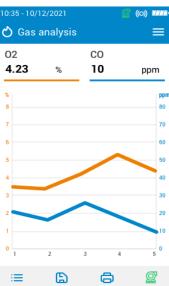
4.51 % co 80 p Eff. (ŋ) 91.4 % 12.5 % C02 T flue 170.3 °C NO 78 ppm NOx 82 ppm 1.094 mbar Draf Ø

Data view

Download app

Example of analyzer screens

10:35 - 10/12/2021	ୁ⊚ ‱ Q Q ≡	10:35 - 10/12,
NATURA	IL GAS	02 4.23
02	4.23 %	
со	140 ppm	8
Eff.	82.9 %	7
C02	500 ppm	5
T-gas	374 °⊧	4
T-air	79.3 °⊧	3
Excess air	21.4 %	2
NO	16.2 ppm	0
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Si-CA 230 kit content

- Si-CA 230 analyzer
- 0, & CO gas sensors (other gas sensors available, see • USB cable optional accessories)
- CO Dilution Auto-Range to 50,000 ppm
- Protective rubber holster
- 300 mm flue gas probe with 3 m dual hose (other probe lengths available)

- Water trap with filter
- AC power supply / charger
- Mobile app & PC software
- Internal wireless communication module
- Carrying case
- Quick Start Guide
- Calibration certificate



Parameter specifications

Parameter	Sensor	Measuring range	Resolution	Accuracy ⁽¹⁾	Response time
02	Electrochemical	0 to 25%	0.01%	±0.2% vol	$T_{_{90}} < 30 \ s$
CO (H ₂ comp.)	Electrochemical	0 to 10,000 ppm	1 ppm	±8 ppm < 160 ppm ±5% rdg up to 2000 ppm ±10% rdg > 2000 ppm	$T_{_{90}} < 40 \ s$
CO (with dilution)	Electrochemical	100 to 50,000 ppm	1 ppm	±10% rdg	$T_{_{90}} < 40 \ s$
CO ₂	Calculated	0 to 99.9%	0.1%	-	-
NO	Electrochemical	0 to 5000 ppm	1 ppm	±5 ppm < 100 ppm ±5% rdg > 100 ppm	T ₉₀ < 40 s
Low NO	Electrochemical	0 to 300 ppm	0.1 ppm	$\pm 1.5 \text{ ppm} < 30 \text{ ppm}$ $\pm 5 \% \text{ rdg} > 30 \text{ ppm}$	T ₉₀ < 40 s
NO ₂	Electrochemical	0 to 1000 ppm	1 ppm	$\pm 5 \text{ ppm} < 100 \text{ ppm}$ $\pm 5 \% \text{ rdg} > 100 \text{ ppm}$	T ₆₀ < 60 s
Low NO ₂	Electrochemical	0 to 100 ppm	0.1 ppm	±1.5 ppm < 30 ppm ±5% rdg > 30 ppm	T ₆₀ < 60 s
NOx	Calculated	0 to 7500 ppm	1 ppm	-	-
Low NOx	Calculated	0 to 450 ppm	0.1 ppm	-	
SO ₂	Electrochemical	0 to 5000 ppm	1 ppm	±5 ppm < 100 ppm ±5% rdg > 100 ppm	T ₆₀ < 30 s
Low SO ₂	Electrochemical	0 to 100 ppm	0.1 ppm	±1.5 ppm < 30 ppm ±5% rdg > 30 ppm	T ₆₀ < 30 s
CxHy (HC)	Pellistor	0 to 5%	0.01%	\pm 5% full scale	$T_{_{90}} < 40 \ s$
H ₂ S	Electrochemical	0 to 500 ppm	0.1 ppm	$\pm 5 \text{ ppm} < 100 \text{ ppm}$ $\pm 5\% \text{ rdg} > 100 \text{ ppm}$	T ₆₀ < 35 s
Flue temperature	ТсК	-4 to 2282 °F -20 to 1250 °C	0.1 °F 0.1 °C	± 3.6 °F or $\pm 0.5\%$ rdg ⁽²⁾ ± 2 °C or $\pm 0.5\%$ rdg ⁽²⁾	-
Air temperature	NTC or TcK	-4 to 248 °F -20 to 120 °C	0.1 °F 0.1 °C	±3.6 °F ±2 °C	-
Differential temperature	Calculated	0 to 2282 °F 0 to 1250 °C	0.1 °F 0.1 °C	-	-
Pressure/Draft	Semiconductor	-80 to 80 inH ₂ 0 -200 to 200 mbar	0.001 inH ₂ O 0.01 mbar	$\pm 1\%$ rdg ± 0.012 inH ₂ 0 $\pm 1\%$ rdg ± 0.03 mbar	-
High accuracy draft	Semiconductor	500 Pa	0.1 Pa	±0.5 Pa < 10 Pa ±3 Pa up to 150 Pa ±1% rdg ±1.5 Pa > 150 Pa	
Excess air	Calculated	0 to 999%	1%	-	-
Efficiency	Calculated	0 to 100% (Gross/ HHV ⁽³⁾)	0.1%	-	-
Efficiency (condensation)	Calculated	0 to 125% (Net/LHV ⁽⁴⁾)	0.1%	-	-
Stack Gas velocity	Calculated	0 to 19,500 fpm 0 to 99 m/s	1 fpm 0.1 m/s	-	

⁽¹⁾All accuracies indicated in this document were stated in laboratory conditions at 68 °F (20 °C) and can be guaranteed for measurements carried out in the same conditions. ⁽²⁾Accuracy given for the analyzer only.

 $^{\rm (3)} \rm For$ Higher Heating Value / $^{\rm (4)} \rm For$ Lower Heating Value

General features

Dimensions	11 x 4.3 x 2" (28 x 11.2 x 5.5 cm)
Weight	30 oz (825 g)
Display	Color Touch Screen with Graphing; Size: 480 x 272 pixels
Keypad	1 On-Off key
Material	ABS-PC
Protection	IP42
Connection	Wireless: class 2 range, range frequency from 2402 MHz to 2480 MHz with a transmit power of 1 dBm. Range up to 50 ft (15 m), depending on smartphone radio strength. Minimum required versions: Android 5.0, iOS 12.4, BLE 4.0 USB
Power supply	Rechargeable battery, USB power supply Li-Ion 5100 mA/h 3.6 V battery / Power supply voltage of the mains unit: 100-240 Vac, 50-60 Hz Mains unit: 5 Vdc/2A
Battery	Battery life > 8 h; Charging time: Fully charge: < 6.5 h; 50%: < 2.5 h
Memory	Internal memory up to 2,000 tests
Environmental conditions of use	Temperature: from 23 to 113 °F (-5 to 45 °C), Hygrometry: in non-condensing conditions (< 85% RH) Maximum altitude: 6561' (2000 m)
Storage temperature	From -4 to 122 °F (-20 to 50 °C)
Languages	English, French, German, Spanish, Italian, Portuguese, Chinese
European Union Directives	2014/53/EU (RED); 2015/863 EU (RoHS 3)
Regulations	EN 50379-1 and EN 50379-2; UNI 7129; UNI 11137; UNI 10389; UNI 10845; UL & cUL Certification; BS 7967:2015; BS EN 50543:2011; UNE 60670-10; ES.02173.ES

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Optional accessories Part number	Description	Illustration
27520 (NO) 27521 (Low NO)	NO or Low NO sensor for NOx	
27526 (NO ₂) 27527 (Low NO ₂)	NO ₂ or Low NO ₂ sensor	
27528 (SO ₂) 27529 (Low SO ₂)	SO ₂ or Low SO ₂ sensor	
27530	CxHy sensor	
27531	H ₂ S sensor	
27544	Draft probe	
27532 (180 mm) 27533 (300 mm) 27534 (750 mm) 27535 (1 m) 27536 (1.5 m)	180, 300 and 750 mm and 1 m and 1.5 m probes available	
27546	Remote wireless printer	
27537	3 m dual hose extension	
27538	Differential pressure hose kit	
24646	Smart air temperature probe with 2 m cable	
11994	Manual smoke pump kit	
27547	CO ambient probe	
27548 26811	CO ₂ ambient probe SCU (Sample Conditioning Unit)	

Ordering Information

All kits includ the following: a 300 mm probe rated to 1472 °F (800 °C) with 3 m dual hose, an ABS hard plastic carrying case, a rubber holster, a water trap with filter, a charger with plug set, a USB cable, a quick start guide and a calibration certificate

Product	ltem #	Description
Si-CA 230-2	27522	Si-CA 230 Analyzer includes two gas sensors (O ₂ , CO),
Si-CA 230-3N	27597	Si-CA 230 Analyzer includes three gas sensors (O_2 , CO, NO)
Si-CA 230-3NL	27598	Si-CA 230 Analyzer includes three gas sensors (O ₂ , CO, Low NO)
Si-CA 230-4ND	27599	Si-CA 230 Analyzer includes four gas sensors (O ₂ , CO, NO, NO ₂)
Si-CA 230-4NS	27600	Si-CA 230 Analyzer includes four gas sensors (O ₂ , CO, NO, SO ₂)
Si-CA 230-4NC	27601	Si-CA 230 Analyzer includes four gas sensors (O ₂ , CO, NO, CxHy)
Si-CA 230-4NLDL	27602	Si-CA 230 Analyzer includes four gas sensors (O ₂ , CO, Low NO, Low NO ₂)
Si-CA 230-4NLSL	27603	Si-CA 230 Analyzer includes four gas sensors (O ₂ , CO, Low NO, Low SO ₂)
Si-CA 230-5NDS	27604	Si-CA 230 Analyzer includes five gas sensors (O ₂ , CO, NO, NO ₂ , SO ₂)
Si-CA 230-5NDC	27605	Si-CA 230 Analyzer includes five gas sensors (O ₂ , CO, NO, NO ₂ , CxHy)
Si-CA 230-5NSC	27606	Si-CA 230 Analyzer includes five gas sensors (O ₂ , CO, NO, SO ₂ , CxHy)
Si-CA 230-5NSH	27607	Si-CA 230 Analyzer includes five gas sensors (O_2 , CO, NO, SO_2 , H_2S)
Si-CA 230-5NLDLSL	27608	Si-CA 230 Analyzer includes five gas sensors (O_2 , CO, Low NO, Low NO_2 , Low SO_2)
Si-CA 230-6NDSC	27609	Si-CA 230 Analyzer includes six gas sensors (O ₂ , CO, NO, NO ₂ , SO ₂ , CxHy)
SICA 230-6NDSH	27610	Si-CA 230 Analyzer includes six gas sensors (O2, CO, NO, NO2, SO2, H2S)
Si-CA 230-6NLDLSLH	27611	Si-CA 230 Analyzer includes six gas sensors (O ₂ , CO, Low NO, Low NO ₂ , Low SO ₂ , H ₂ S)

Maintenance

We carry out calibration, adjustment and maintenance of your devices to guarantee a consistent and accurate level of quality of your measurements. As part of Quality Assurance Standards, we recommend annual recalibration and maintenance check-up.

Warranty

Devices have 2-year guarantee against any manufacturing defect (return to our After-Sales Service required for appraisal).



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