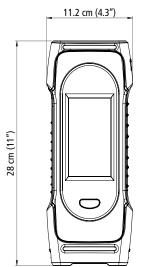
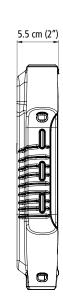




- Ergonomic, light weight, & durable design
- Data management with automatic logging & report creation
- Predictive maintenance with estimated sensor life & calibration reminders
- One touch pump On/Off with purge
- PC software with wireless and USB connectivity
- Auto pump cut-off for high CO levels
- Graphical data display
- Customizable gas analysis screen
- Dimensions





- Sample conditioning unit for low NOx & high moisture applications
- Stack gas velocity with Pitot tube
- Draft & differential pressure measurements
- Emissions values adjusted for reference O₂
- CO & CO₂ Monitoring in Ambient Air
- · Hose extensions for tall & difficult to reach stacks
- Wireless Printer
- Protective rubber holster



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



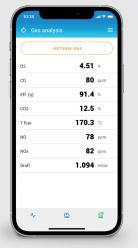
Download app

• 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



Data view

Example of analyzer screens

🖒 Gas analysis	₅ QQ≡	🖒 Gas analysis	≡
NATU	URAL GAS	02 4.23 %	CO 10 ppm
02	4.23 %	4.23 %	10 ppm
CO	140 ppm	8	
Eff.	82.9 %	7	
02	500 ppm	5	
T-gas	374 °F	4	
F-air	79.3 °F	3	
Excess air	21.4 %	2	
0	16.2 ppm	0	3 4 5

Si-CA 230 kit content

- Si-CA 230 analyzer
- O₂ & CO gas sensors (other gas sensors available, see 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
- USB cable
- Mobile app (Free download)
- Internal wireless
 communication module
- ABS hard carrying caseQuick Start Guide
- Quick Start Guide
- Calibration certificate



Parameter specifications

Parameter	Sensor	Measuring range	Resolution	Accuracy ⁽¹⁾	Response time
0,	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	$T_{_{90}} < 40 \text{ s}$
CO (with dilution)	Electrochemical	100 to 50,000 ppm	1 ppm	±10% rdg	$T_{_{90}} < 40 \text{ s}$
CO ₂	Calculated	0 to 99.9%	0.1%	-	-
NO	Electrochemical	0 to 5000 ppm	1 ppm	$\pm 5 \text{ ppm} < 100 \text{ ppm}$ $\pm 5\% \text{ rdg} > 100 \text{ ppm}$	$T_{_{90}} < 40 \ s$
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	$\pm 1.5 \text{ ppm} < 30 \text{ ppm} \\ \pm 5\% \text{ rdg} > 30 \text{ ppm}$	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	$\pm 5 \text{ ppm} < 100 \text{ ppm}$ $\pm 5\% \text{ rdg} > 100 \text{ ppm}$	T ₆₀ < 30 s
Low SO ₂	Electrochemical	0 to 100 ppm	0.1 ppm	$\pm 1.5 \text{ ppm} < 30 \text{ ppm}$ $\pm 5\% \text{ rdg} > 30 \text{ ppm}$	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	±5 ppm < 100 ppm ±5% rdg > 100 ppm	T ₆₀ < 35 s
Flue temperature	ТсК	-20 to +1250 °C	0.1 °C	$\pm 2~^{\circ}C$ or $\pm 0.5\%~rdg^{\scriptscriptstyle (2)}$	-
Air temperature	NTC or TcK	-20 to +120 °C	0.1 °C	±2 °C	-
Differential temperature	Calculated	0 to 1250 °C	0.1 °C	-	-
Pressure/Draft	Semiconductor	-200 to +200 mbar	0.01 mbar	$\pm 1\%$ rdg ± 0.03 mbar	-
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 99 m/s 0 to 19,500 fpm	0.1 m/s 1 fpm	-	

⁽¹⁾All accuracies indicated in this document were stated in laboratory conditions at 20 °C (68 °F) and can be guaranteed for measurement carried out in the same conditions. ⁽²⁾Accuracy given for the analyzer only. ⁽³⁾For Higher Heating Value / ⁽⁴⁾For Lower Heating Value

General features

Dimensions	28 x 11.2 x 5.5 cm		
Weight	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 15 m, depending on smartphone radio strength. Minimum required versions: Android 8.0, iOS 12.4, BLE 4.0 Low Energy or compatible - 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 2000 tests		
Environmental conditions of use	Temperature: from -5 to 45 °C, Hygrometry: in non-condensing conditions (< 85% RH) Maximum altitude: 2000 m		
Storage temperature	From -20 to 50 °C		
Languages	English, French, German, Spanish, Italian, Portuguese, Simplified Chinese		
European Union Direc- tives	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		

Optional accessories

Part number	Description	Illustration
27520 (NO) 27521 (Low NO)	NO/NOx sensor Low NO/Low NOx sensor	
27526 (NO ₂) 27527 (Low NO ₂)	NO ₂ sensor Low NO ₂ sensor	
27528 (SO ₂) 27529 (Low SO ₂)	SO ₂ sensor 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 mm probe rated to 800 °C with 2 m dual hose 300 mm probe rated to 800 °C with 3 m dual hose 750 mm probe rated to 800 °C with 3 m dual hose 1 m probe rated to 1200 °C with 3 m dual hose 1.5 m probe rated to 1200 °C with 3 m dual hose All probes include thermocouple K type sensor, water trap with filter, connectors to device	
27546	Remote wireless printer	
27537	3 m dual hose extension	
27538	Differential pressure hose kit	
27547	CO ambient probe	
27548	CO ₂ ambient probe	
26811	SCU (Sample Conditioning Unit)	

Ordering Information

All kits includ the following: 300 mm probe rated to 800 °C with 3 m dual hose, wirelss connection to mobile app, rubber holster, water trap with filter, charger with plug set, USB-C cable, quick start guide, calibration certificate and ABS hard plastic carrying case

ltem #	Description
Si-CA 230-3N (27597)	Si-CA 230 Analyzer includes three gas sensors (O ₂ , CO, NO/NOx)
Si-CA 230-3NL (27598)	Si-CA 230 Analyzer includes three gas sensors (O_2 , CO, Low NO/Low NOx)
Si-CA 230-4ND (27599)	Si-CA 230 Analyzer includes four gas sensors (O ₂ , CO, NO/NOx, NO ₂)
Si-CA 230-4NS (27600)	Si-CA 230 Analyzer includes four gas sensors (O ₂ , CO, NO/NOx, SO ₂)
Si-CA 230-4NC (27601)	Si-CA 230 Analyzer includes four gas sensors (O ₂ , CO, NO/NOx, CxHy)
Si-CA 230-4NLDL (27602)	Si-CA 230 Analyzer includes four gas sensors (O ₂ , CO, Low NO/Low NOx, Low NO ₂)
Si-CA 230-4NLSL (27603)	Si-CA 230 Analyzer includes four gas sensors (O ₂ , CO, Low NO/Low NOx, Low SO ₂)
Si-CA 230-5NDS (27604)	Si-CA 230 Analyzer includes five gas sensors (O_2 , CO, NO/NOx, N O_2 , SO ₂)
Si-CA 230-5NDC (27605)	Si-CA 230 Analyzer includes five gas sensors (O ₂ , CO, NO/NOx, NO ₂ , CxHy)
Si-CA 230-5NSC (27606)	Si-CA 230 Analyzer includes five gas sensors (O ₂ , CO, NO/NOx, SO ₂ , CxHy)
Si-CA 230-5NSH (27607)	Si-CA 230 Analyzer includes five gas sensors (O_2 , CO, NO/NOx, SO ₂ , H_2 S)
Si-CA 230-5NLDLSL (27608)	Si-CA 230 Analyzer includes five gas sensors (O ₂ , CO, Low NO/Low NOx, Low NO ₂ , Low SO ₂)
Si-CA 230-6NDSC (27609)	Si-CA 230 Analyzer includes six gas sensors (O ₂ , CO, NO/NOx, NO ₂ , SO ₂ , CxHy)
Si-CA 230-6NDSH (27610)	Si-CA 230 Analyzer includes six gas sensors (O ₂ , CO, NO/NOx, NO ₂ , SO ₂ , H2S)
Si-CA 230-6NLDLSLH (27611)	Si-CA 230 Analyzer includes six gas sensors (O ₂ , CO, Low NO/Low NOx, 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).