

DATA SHEET

Si-CA 030

Residential & commercial combustion analyser
The latest in combustion analysis technology

Compact, Light and Durable Design



Up to three gas sensors O₂, CO, and NO/NOx



Color display screen



Lightweight, only 350 g



Auto pump cut-off for high CO levels protection



CO sensor measurement up to 8,000 ppm



Data management with automatic logging & report creation



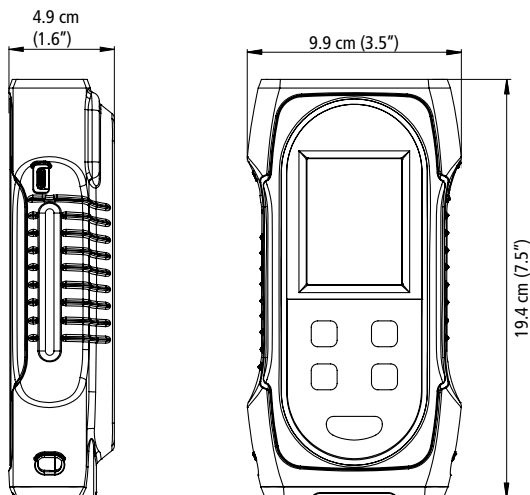
Note: Phone not included.



- Predictive maintenance with estimated sensor life & calibration reminders
- Draft & differential pressure measurements
- Calculated CO₂% value
- NOx capable with NO sensor

- Quick and easy pump On/Off control
- Combustion efficiency & excess air calculations
- CO safety monitoring in ambient air
- Protective rubber holster
- Extended warranties available

Dimensions



Compact design



Parameter specifications

Parameter	Sensor	Measuring range	Resolution	Accuracy ⁽¹⁾	T ₉₀ response time
O ₂	Electrochemical	0 to 25%	0.01%	±0.2% vol	< 30 s
CO	Electrochemical	0 to 8000 ppm	1 ppm	±8 ppm < 160 ppm ±5% rdg up to 2000 ppm ±10% rdg > 2000 ppm	< 40 s
CO ₂	Calculated	0 to 99.9%	0.1%	-	-
NO (optional)	Electrochemical	0 to 5000 ppm	1 ppm	±5 ppm < 100 ppm ±5% rdg > 100 ppm	< 40 s
NOx (optional)	Calculated	0 to 7500 ppm	1 ppm	-	-
Flue temperature	TcK	-20 to +1250 °C	0.1 °C	±2 °C or ±0.5% rdg ⁽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	±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%	-	-

⁽¹⁾All accuracies indicated in this document were stated in laboratory conditions at 20 °C (68 °F) and 1013 mbar 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

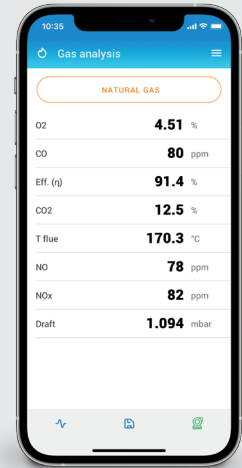
Dimensions	19.4 x 9.9 x 4.9 cm
Weight	350 g
Display	Color display screen; Size: 320 x 240 pixels
Keypad	5 keys
Material	ABS-PC
Protection	IP42
Connection	- Wireless: class 2 range, range frequency from 2402 MHz to 2480 MHz with a transmit power of 1 dBm. Range up to 15 m, depending on smartphone radio 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
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 Directives	2014/53/EU (RED); 2015/863 EU (RoHS 3)
Regulations	EN 50379-1 and EN 50379-2; UNI 10389; UL & cUL Certification; BS 7967:2015; BS EN 50543:2011; UNE 60670-10; ES.02173.ES

Apps

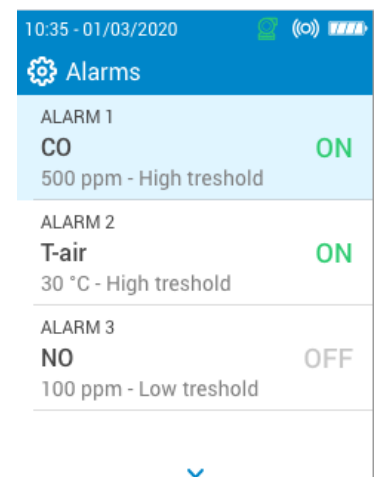
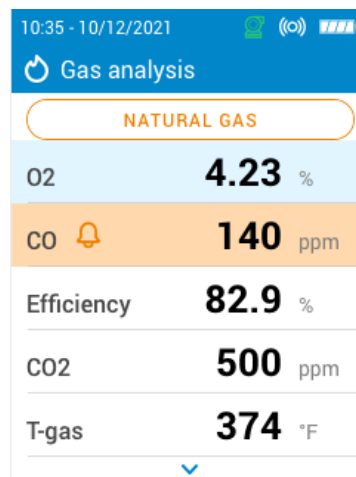
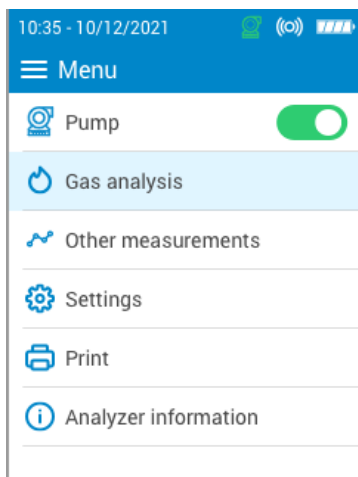
- Free apps for iOS & Android mobile devices
- Fast, easy wireless connection
- Remote live view of combustion analysis data as list or graph
- Remote control to change settings
- Data saving, including automatic logging
- Report creation in PDF, CSV (for Excel) and XML formats
- Databases for customers, operators, & equipment



Download app



Example of analyzer screens



Si-CA 030 kit content





- Si-CA 030 analyzer
- O₂ & CO gas sensors (NO/NOx optional)
- Protective rubber holster
- Flue gas probe with dual hose
- Water trap with filter
- AC power supply / charger
- USB cable
- Mobile app (Free download)
- Internal wireless communication module
- Vinyl carrying bag
- Quick Start Guide
- Calibration certificate



Ordering Information

Item #	Description
Si-CA 030 Kit 2AS (27496)	Si-CA 030 Gas Analyzer Kit 2AS, includes two gas sensors (O ₂ , CO), upgradeable to three gas sensors (NO/NOx), 180 mm probe rated to 800 °C with 2 m dual hose, wireless connection to mobile app and remote printer (option), rubber holster, water trap with filter, charger with plug set, USB-C cable, quick start guide, calibration certificate and vinyl carrying bag
Si-CA 030 Kit 2BS (27498)	Si-CA 030 Gas Analyzer Kit 2BS, includes two gas sensors (O ₂ , CO), upgradeable to three gas sensors (NO/NOx), 300 mm probe rated to 800 °C with 3 m dual hose, wireless connection to mobile app and remote printer (option), rubber holster, water trap with filter, charger with plug set, USB-C cable, quick start guide, calibration certificate and vinyl carrying bag
Si-CA 030 Kit 3BS (27503)	Si-CA 030 Gas Analyzer Kit 3BS, includes three gas sensors (O ₂ , CO, NO/NOx), 300 mm probe rated to 800 °C with 3 m dual hose, wireless connection to mobile app and remote printer (option), rubber holster, water trap with filter, charger with plug set, USB-C cable, quick start guide, calibration certificate and vinyl carrying bag

Optional accessories

Part number	Description	Illustration
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	

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).