



DATA SHEET

Probes and accessories for Si-CA 030 / 130 / 230 combustion analyzers

| Probe | Reference | Measuring range | Accuracy ⁽¹⁾ | Illustration |
|---|--|--|---|---|
| Flue gas probe Different shaft lengths available : 180, 300 and 750 mm probes and 1 m and 1.5 m probes. 180 mm probe includes 2 m of dual hose with water trap and adjustable fixing cone. All other probes include 3 m of dual hose with water trap and adjustable fixing cone. | 27532 (180 mm) 27533 (300 mm) 27534 (750 mm) 27535 (1 m) 27536 (1.5 m) | 180 and 300 mm probes: -20 to +800 °C / -4 to +572 °F 750 mm, 1 m and 1.5 m probes: -20 to +1200 °C / -4 to 2192 °F | ±2 °C or ±0.5% rdg ±3.6 °F or ±0.5% rdg |  |
| Flexible probe Allows user to insert the probe into flues and pipes that are hard to reach and in tight locations where the typical straight rigid probe is difficult to use. - Bends up to 90° with a radius of 8 cm - Easy return to straight position - 180 mm flexible probe shaft length - 2 m dual hose with water trap | 27936 | 0 to +300 °C 32 to +572 °F | ±2 °C or ±0.5% rdg ±3.6 °F or ±0.5% rdg |  |
| Draft probe Allows user to measure the draft into the flue/stack. It allows draft and combustion analysis to be measured simultaneously. | 27544 | -200 to +200 mbar -80 to +80 inH ₂ O | ±1% rdg ±0.03 mbar ±1% rdg ±0.012 inH ₂ O |  |
| Smart air temperature probe Allows user to measure the incoming air temperature. Sensor type: K thermocouple. Stainless steel contact tip, 100 mm length and Ø4.5 mm. With a 2 m coiled cable. | 24646 | -40 to +250 °C -40 to +482 °F | ±2 °C ±3.6 °F |  |
| Pt100 temperature probe Allows user to measure the incoming air temperature. Sensor type: Pt100. Stainless steel contact type, 100 mm length and Ø4.5 mm. With a 2 m coiled cable. | 27865 | -40 to 250 °C -40 to 482 °F | ±(0.3% rdg ±0.25) °C -40°F to 32 °F: ±(-0.3% rdg +0.6) °F 32°F to 482 °F: ±(0.3% rdg +0.4) °F |  |
| CO probe⁽²⁾ Allows user to measure the ambient CO. Sensor type: electrochemical. | 27547 | 0 to 500 ppm | 0 to 200 ppm: ±3 ppm 200 to 500 ppm: ±1.5% of reading |  |
| CO₂ probe⁽²⁾ Allows user to measure the ambient CO ₂ . Sensor type: NDIR. | 27548 | 0 to 5000 ppm | ±3% of reading or ±50 ppm |  |

⁽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⁾The CO and CO₂ probes are compatible with the Si-CA 130 and 230 without modification of the analysers. They are also compatible with the Si-CA 030, but may require the Si-CA 030 to be returned to the factory in order to install an external input for these two probes.

| Sensors | Reference | | Measuring range | Accuracy ⁽²⁾ | Compatible analyzer |
|--|------------------------|------------|--|---|-----------------------|
| | Upgrade ⁽¹⁾ | Spare part | | | |
| O₂ sensor For O ₂ measurement. Electrochemical sensor. | N/A | 27524 | 0 to 25% | ±0.2% vol | Si-CA 030 |
| O₂ sensor For O ₂ measurement. Electrochemical sensor. | N/A | 27628 | 0 to 25% | ±0.2% vol | Si-CA 130 / Si-CA 230 |
| CO sensor For CO measurement. Electrochemical sensor. | N/A | 27525 | 0 to 8000 ppm | ±8 ppm < 160 ppm ±5% rdg up to 2000 ppm ±10% rdg > 2000 ppm | Si-CA 030 |
| CO sensor For CO measurement. Electrochemical sensor. | N/A | 27629 | 0 to 8000 ppm | | Si-CA 130 |
| CO-H₂ sensor For CO measurement with H ₂ compensation. Electrochemical sensor. | N/A | 27877 | 0 to 8000 ppm | | Si-CA 130 |
| CO sensor For CO measurement. Electrochemical sensor. | N/A | 27630 | 0 to 10000 ppm (up to to 50000 ppm with dilution) | | Si-CA 230 |
| NO sensor For NO measurement. Electrochemical sensor. | 27647 | 27506 | 0 to 5000 ppm | ±5 ppm < 100 ppm ±5% rdg > 100 ppm | Si-CA 030 |
| NO sensor For NO measurement. Electrochemical sensor. | 27520 | 27631 | 0 to 5000 ppm | ±5 ppm < 100 ppm ±5% rdg > 100 ppm | Si-CA 130 / Si-CA 230 |
| Low NO sensor For low NO measurement. Electrochemical sensor. | 27521 | 27632 | 0 to 300 ppm | ±1.5 ppm < 30 ppm ±5 % rdg > 30 ppm | Si-CA 130 / Si-CA 230 |
| NO₂ sensor For NO ₂ measurement. Electrochemical sensor. | 27526 | 27633 | 0 to 1000 ppm | ±5 ppm < 100 ppm ±5 % rdg > 100 ppm | Si-CA 230 |
| Low NO₂ sensor For low NO ₂ measurement. Electrochemical sensor. | 27527 | 27634 | 0 to 100 ppm | ±1.5 ppm < 30 ppm ±5% rdg > 30 ppm | Si-CA 230 |
| SO₂ sensor For SO ₂ measurement. Electrochemical sensor. | 27528 | 27635 | 0 to 5000 ppm | ±5 ppm < 100 ppm ±5% rdg > 100 ppm | Si-CA 230 |
| Low SO₂ sensor For low SO ₂ measurement. Electrochemical sensor. | 27529 | 27636 | 0 to 100 ppm | ±1.5 ppm < 30 ppm ±5% rdg > 30 ppm | Si-CA 230 |
| CxHy sensor For CxHy measurement. Pellistor sensor. | 27530 | 27637 | 0 to 5% | ± 5% of full scale | Si-CA 230 |
| H₂S sensor For H ₂ S measurement. Electrochemical sensor. | 27531 | 27638 | 0 to 500 ppm | ±5 ppm < 100 ppm ±5% rdg > 100 ppm | Si-CA 230 |

⁽¹⁾Upgrading the analyzer with the addition of a sensor requires the analyzer to be returned to the factory.

⁽²⁾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.

| Accessories | Reference | Illustration |
|---|-----------|---|
| Sintered filter Sintered pre-filter easily mounts to all rigid flue gas probes and is removable. | 27552 |  |
| Remote wireless printer | 27546 |  |
| Set of 5 paper rolls for remote wireless printer | 23491 |  |
| 3 m dual hose extension For Si-CA 030/130/230 flue gas probes. | 27537 |  |
| Differential pressure hose kit including 2 x 1 m hoses with fittings for Si-CA 030/130/230 For differential pressure measurements and also for stack gas velocity with optional Pitot tube. | 27538 |  |

Accessories

Reference

Illustration

Gas network leakage test kit

Supplied with various accessories for pressurisation and connection to the gas network

27550



Manual smoke/soot pump kit.

Supplied with 50 filters and a table of comparison.

11994



Filters for smoke/soot pump

Set of 50 filters for manual smoke pump

12052

SCU (Sample Conditioning Unit)

For removal of condensation from flue gas at the probe handle in addition to the standard water trap.

26811



Water trap

Supplied with filter. Without hose and without connection.

27555



Water trap

Supplied with filter, hose and connection.

27556



Filters for water trap

Set of 5 filters for water trap

27729



Internal dust filter

For Si-CA 230 only

27724



Protective shell

Rubber protective shell for Si-CA 030 and Si-CA 130

27553



Protective shell

Rubber protective shell for Si-CA 230

27554



Charger

Mains charger with various international sockets

27557



USB cable

Type C USB cable for charging and communications.

27558

Vinyl carrying case

Soft vinyl carrying case with shoulder strap. Compatible with 180 and 300 mm probes.

27539



Rigid transport case

Rigid ABS transport case. Compatible with 180 and 300 mm probes.

27540



