

SGA Single Gas Analyzer

Precision measurement of a single gas in protective heat treating atmospheres

Color Touch Screen



Benefits

- Easy to operate
- Built in sample pump
- Onboard data logging
- Easy to use onboard calibration
- Software utilities for printing charts
- Ammonia compatible design
- Field calibration for zero and span
- Ethernet and USB connection to PC
- User-assignable alarms with visibility on touch screen
- Easy integration with SCADA package
- Highly visible color touch screen readout
- Multi-language support

The SGA can be set up to measure one or more of the following gases:

CO: Carbon Monoxide (Part No. 13672-CO)

Range: 0 - 100%
Accuracy: $\pm 0.2\%$
Resolution: $\pm 0.01\%$
Non-Dispersive Infrared (NDIR)

CO₂: Carbon Dioxide (Part No. 13672-CO2)

Range (standard): 0 - 2.0%
Optional Range (high range): 0 - 20.0%
Accuracy (standard): $\pm 0.02\%$
Accuracy (high range): $\pm 0.2\%$
Resolution (standard): $\pm 0.001\%$
Resolution (high range): $\pm 0.01\%$
Non-Dispersive Infrared (NDIR)

CH₄: Natural Gas/Methane (Part No. 13672-CH4)

Range: 0 - 100%
Accuracy: $\pm 0.2\%$
Resolution: $\pm 0.01\%$
Non-Dispersive Infrared (NDIR)

H₂: Hydrogen (Part No. 13672-H2)

Range: 0 - 100%
Accuracy: $\pm 0.1\%$
Resolution: $\pm 0.1\%$
Thermal Conductive

Unit Specifications

Response Time:	0 - 6 seconds
Power Supply Input Voltage:	110VAC or 230VAC
Max. Operating Temperature:	122 °F (50 °C)
Analog Outputs:	2 (4-20mA or 0-5 V)
Serial Communications:	2 RS485 ports using Modbus RTU, configurable baud rate
Ethernet:	2 ports
USB:	1 Type A port, 1 Type B port

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Single Gas Sensors

Precision measurement of a single gas with broad application and implementation



Unit Specifications

Response Time:	0 - 6 seconds
Power Supply Input Voltage:	10 - 30 VDC
Max. Operating Temperature:	122 °F (50 °C)
Analog Outputs:	2 (4-20mA or 0-5 V)
Serial Communications:	2 RS485 ports using Modbus RTU, configurable baud rate
Ethernet:	2 ports
USB:	1 Type A port, 1 Type B port
Calibration:	Field calibration via web interface

OEM Sensor Enclosures

CO: Part No. A20831-CO

Range: 0 - 100%

Accuracy: $\pm 0.2\%$

Resolution: $\pm 0.01\%$

CO₂: Part No. A20831-CO2

Range (standard): 0 - 2.0%

Optional Range (high range): 0 - 20.0%

Accuracy (standard): $\pm 0.02\%$

Accuracy (high range): $\pm 0.2\%$

Resolution (standard): $\pm 0.001\%$

Resolution (high range): $\pm 0.01\%$

CH₄: Part No. A20831-CH4

Range: 0 - 100%

Accuracy: $\pm 0.2\%$

Resolution: $\pm 0.01\%$

H₂: Part No. A20830

Range: 0 - 100%

Accuracy: $\pm 0.1\%$

Resolution: $\pm 0.1\%$

H₂/O₂ Sensor H₂ measurement with O₂ input

The H₂/O₂ sensor provides a measurement of hydrogen gas percentage in a sampled gas while allowing for an external oxygen input. The hydrogen sensor is typically mounted directly to the top of a furnace and does not require any additional sample lines or pumps to operate. It measures hydrogen and can also accept the input from an externally mounted, optional oxygen sensor.



H₂: Part No. A20829

Range: 0 - 100%

Accuracy: $\pm 0.1\%$

Resolution: $\pm 0.1\%$

O₂: Part No. 31435

Range: 0 - 21%

Accuracy: $\pm 0.1\%$



SuperSystems
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