sensors

SGA Single Gas Analyzer

Precision measurement of a single gas in protective heat treating atmospheres

Color Touch Screen

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: ±0.2%
- Resolution: ±0.01%
- Non-Dispersive Infrared (NDIR)

CO_2: Carbon Dioxide (Part No. 13672-CO2)
- Range (standard): 0 - 2.0%
- Optional Range (high range): 0 - 20.0%
- Accuracy (standard): ±0.006%
- Accuracy (high range): ±0.2%
- Resolution (standard): ±0.001%
- Resolution (high range): ±0.01%
- Non-Dispersive Infrared (NDIR)

CH_4: Natural Gas/Methane (Part No. 13672-CH4)
- Range: 0 - 100%
- Accuracy: ±0.2%
- Resolution: ±0.01%
- Non-Dispersive Infrared (NDIR)

H_2: Hydrogen (Part No. 13672-H2)
- Range: 0 - 100%
- Accuracy: ±0.1%
- Resolution: ±0.1%
- Thermal Conductive

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

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: ±0.2%
Resolution: ±0.001%

CO_2: Part No. A20831-CO2
Range (standard): 0 - 2.0%
Optional Range (high range): 0 - 20.0%
Accuracy (standard): ±0.006%
Accuracy (high range): ±0.2%
Resolution (standard): ±0.001%
Resolution (high range): ±0.01%

CH_4: Part No. A20831-CH4
Range: 0 - 100%
Accuracy: ±0.2%
Resolution: ±0.001%

H_2: Part No. A20830
Range: 0 - 100%
Accuracy: ±0.1%
Resolution: ±0.1%

H_2/O_2 Sensor

H_2 measurement with O_2 input

The H_2/O_2 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.

H_2: Part No. A20829
Range: 0 - 100%
Accuracy: ±0.1%
Resolution: ±0.1%

O_2: Part No. 31435
Range: 0 - 21%
Accuracy: ±0.1%

SuperSystems incorporated

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