GT823 Oxygen Sensor

Oxygen Deficiency / Enrichment Sensor

Built-in Transmitter, Sensor, Relays, and Alarms

The SST Model GT823 includes a high reliability microprocessor based transmitter/controller in a compact, one piece construction. Just mount, apply power and you have a complete monitoring and notification of low or high oxygen concentrations. A digital readout continuously displays operting status and the actual concentration of oxygen.

An electrochemical fuel cell sensing element with a patented diffusion barrier is located inside the stanless steel flameproof housing. The three electrode cell is maintenance free and stable over long periods of time. The capillary diffusion barrier technology results in a direct response to volume concentration. A high reserve of electrochemical activity insures a long life and excellent temperature stability. The performance is relatively unaffected by humidity, provided conditions are non-condensing.

The automatic calibration sequence is easily completed by just one person. The microprocessor stores the results of the calibration in its permanent (non-volatile) memory for use in subsequent operation. The unit has a built-in audible and visual alarm.

FEATURES & BENEFITS

- Maintenance free electrochemical cell sensing element in stainless steel housing
- Operates on standard 120 or 240 volt power source
- 4-20 mA output for optional connection to external equipment
- User programmable LOW alarm and HIGH alarm set points
- Voltage-free dry contacts for local control
- Available two piece model allows for sensor to be located remotely
- Digital readout of oxygen concentration to ±0.1% resolution
- Pushbutton switch initiates test or calibration sequence (no magnet required)
- Pushbutton switch to silence horn
- Combination 105dB(A) high output alarm horn sounder & 5 joule xenon strobe
- Shipped fully assembled and pre-calibrated
- 5 Year Warranty
- Made in USA

TYPICAL APPLICATIONS

- Laboratories
- Testing Facilities
- Manufacturing
- Hospitals
- Oxygen storage facilities
- Nitrogen storage facilities
- Breweries

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TECHNICAL SPECIFICATIONS

Power Input:	85 to 264 volts AC, 47 to 440 Hz
Operating Temperature:	-22 to +131°F (-30 to +55°C) | Recommended storage +32°F to +68°F
Operating Humidity:	0 to 99% Relative Humidity non-condensing
Display Resolution:	0.1%
Nominal Range:	0-25% Oxygen
Max Overload:	30% Oxygen
Output Drift:	Less than 1% signal loss per month (Typically less than 15% in two years)
Operating Life of Cell:	2 Years (Plug-in cell offers easy field replacement)
Relay Outputs:	Low (Deficiency) alarm, High (Enrichment) alarm, Fault/Malfunction Configurable normally open or normally closed
Relay Contact Ratings:	6 amps @ 28 volts DC or 300 volts AC resistive 1/8 HP @ 120/240 volts AC
Analog Output:	0 to 20 mA current source into a load of 600 ohms or less
Warranty:	5 Years

DIMENSIONS

Size:	8 x 17 3/4 x 6 inches (200 x 450 x 152 mm)
Weight:	14 pounds (6.4 kg)

ORDERING INFORMATION

Part No.	Description
823-1	Model GT823 Oxygen Deficiency/Enrichment NOVA-Sensor standalone unit with built-in transmitter, sensor, relays, power supply, and audible and visual alarm
20348-4	Replacement oxygen fuel cell (2 year rated)
823-2	Two-piece model with remote sensor mounting

Available Accessories:

850-4	Sensor remote mounting junction box
851-1	Rain shield, stainless steel
851-5	Water spray shield for water jets/heavy seas/dust
852-1	Dust cover
852-3	Dust cover with add'l charcoal filter for high silicone
867	Complete calibration kit, please specify gas when ordering

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