smart
GasDetection
Technologies

Dynagard 25 Series O$_2$

Single point fixed oxygen monitoring system

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Simple and effective

The Dynagard 25 Series accurately measures oxygen levels. The unit offers a local display, a horn / strobe, and a linear 4-20 mA output. The Dynagard 25 Series offers a safe and reliable gas warning system.

Alarm points

Each alarm can be adjusted separately. The alarm point values can be freely adjusted within the detection range of the transmitter. Every alarm point value can be set to over range / under range, latching / non-latching, or resettable / non-resettable.

Alarm relays

The controller provides four voltage-free relays for the three alarms and one fault warning. The relays may be used to control additional alarm devices like lights or horns. They can even prompt specific counter measures to prevent or limit dangers from gases or vapors.

ZD21 zirconia sensor

The comprehensive electronics allow for easy operation and maintenance and also increase operational safety and accuracy. In less than 2 seconds, the ZD21 responds to an oxygen deficiency. The sensor has a platinum coating on the inside and outside of the ceramic cylinder. Oxygen is electrochemically reduced at the cathode.

The voltage produced is proportional to the net difference in the partial pressures of oxygen in the reference gas versus the sampled gas. This extremely short response time allows the user the time to take measures to prevent considerable damage.

Technical Data: Dynagard 25 Series O$_2$

Gas: Oxygen (O$_2$)
Detection range: 0-25% volume
Measuring principle: Zirconia oxide (ZD)
Gas supply: Diffusion
Expected sensor life: Greater than 5 years
Temperature: +32 to +122 ˚F / 0 to +55 ˚C
Humidity: 0 to 99% r.h. non-condensing
Pressure: 920 to 1,100 hPA
Output signal: Linear 4-20 mA
Power supply: 24 V DC wall pack
Display: 3-digit LED display for linear
measurement values, service
1 LED green – operational status
1 LED yellow – fault
3 LEDs red – alarm
Display of max / min values

Horn: Low - 70 dB at 10 ft per UL 464
High - 83 dB at 10 ft per UL 464
Strobe: Light output on axis (cd)
Low - 35
High - 68
Alarms: 3 alarm points, user adjustable
within the detection range
Alarm functions available:
Latching / non-latching
Resettable / non-resettable
Hysteresis adjustable
Delay-time 0 to 2 minutes
Alarm thresholds adjustable

Relays:
3 alarm points, 1 fault – voltage free
Factory settings
A1 - strobe
A2 - open
A3 - horn
Fault - open
Voltage: 250 V AC 50/60 Hz or
250 V DC maximum
Dimensions: 11 x 7 x 2.75 in /
27.9 x 17.8 x 7 cm
(H x W x D)
Weight: 6.5 lbs / 2.95 kg

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Rev. 1 (12/01/22)