

# Dynagard 25 Series Single Point Fixed O<sub>2</sub> Monitoring System



- Easy installation
- Local display and horn / strobe
- Adjustable alarm points
- On-board relays for external controls
- 4-20 mA output

## 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.

## ZD 21 Zirconia Sensor

The comprehensive electronics allow for easy operation and maintenance and also increase operational safety and accuracy. In less than 2 seconds, the ZD 21 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.



## Dynagard 25 Series

# Technical Data

### Cases

Oxygen (O<sub>2</sub>)

### Detection range

0-25% volume

### Detection principal

Zirconia oxide

### Expected sensor life

5 years +

### Gas supply

Diffusion

### Humidity

0 to 99 %r.h. non-condensing

### Temperature range

32 to +122°F / 0 to +55°C

### Pressure

920 to 1,100 hPA

### Power supply

24 VDC wall pack

### Weight

6.5 lbs. (2.95 kg)

### 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 maximum / minimum values

### Alarms

3 alarm points

User adjustable within the detection range

### Alarm Functions Available

Over range / under range

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 VAC 50/60 Hz or 250 VDC

maximum

### Output signal

Linear 4-20 mA

### 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

### Dimensions

11x7x2.75 inches (27.9x17.8x7 cm) (HxWxD)

Specifications subject to change without notification

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