Dynagard AutoCal® Series
Single Point Gas Monitors

AutoCal® Calibration

Smart Sensor Technology

Digital Display/Control Connection

Internal Push-button Alarm Settings

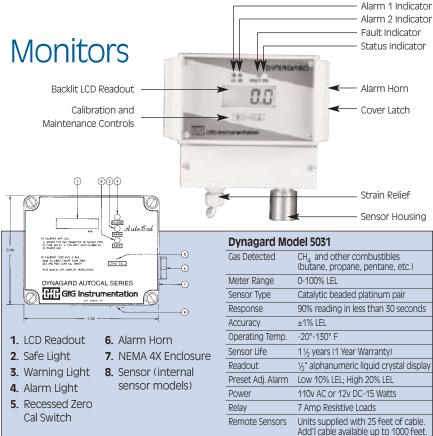**Worldwide Supplier of Gas Detection Solutions**

Single Point Area Monitors

Dynagard AutoCal monitors are single point detection instruments that accurately measure toxic gases and oxygen levels. Alarm lights on the front panel illuminate and an internal horn sounds when gas concentrations are exceeded.

Simple and Effective

The units accurately display values on a large backlit LED and can transmit a linear 4-20mA output. AutoCal calibration and maintenance is done effortlessly through front panel push-buttons. Smart sensors enable the user to change measuring ranges or gas types in the field without the need for additional programming. The Dynagard is equipped with onboard relays for two adjustable alarm points and one sensor fault for local connection and activation or deactivation of external devices like strobes, fans, auto dialers, etc.

Alarm 1 Indicator
Alarm 2 Indicator
Fault Indicator
Status Indicator

Backlit LCD Readout
Calibration and Maintenance Controls

Alarm Horn
Cover Latch

Strain Relief
Sensor Housing

1. LCD Readout
2. Safe Light
3. Warning Light
4. Alarm Light
5. Recessed Zero Cal Switch
6. Alarm Horn
7. NEMA 4X Enclosure
8. Sensor (internal sensor models)

Dynagard Model 5031	
Gas Detected	CH$_4$ and other combustibles (butane, propane, pentane, etc.)
Meter Range	0-100% LEL
Sensor Type	Catalytic beaded platinum pair
Response	90% reading in less than 30 seconds
Accuracy	±1% LEL
Operating Temp.	-20°-130° F
Sensor Life	1½ years (1 Year Warranty)
Readout	½" alphanumeric liquid crystal display
Preset Adj. Alarm	Low 10% LEL; High 20% LEL
Power	110v AC or 12v DC-15 Watts
Relay	7 Amp Resistive Loads
Remote Sensors	Units supplied with 25 feet of cable. Add'l cable available up to 1000 feet.

Technical Data

Dynagard AutoCal Gas Monitors

Gases & Ranges*

Ammonia (NH$_3$)	0 to 200 ppm
	0 to 1000 ppm
Carbon Monoxide (CO)	0 to 500 ppm
	0 to 2000 ppm
Chlorine (Cl$_2$)	0 to 50 ppm
	0 to 250 ppm
Chlorine Dioxide (ClO$_2$)	0 to 1.0 ppm
Ethylene Oxide (C$_2$H$_4$O)	0 to 20 ppm
Hydrogen (H$_2$)	0 to 2000 ppm
	0 to 4% vol.
Hydrogen Chloride (HCL)	0 to 200 ppm
Hydrogen Cyanide (HCN)	0 to 200 ppm
Hydrogen Sulfide (H$_2$S)	0 to 200 ppm
	0 to 1000 ppm
Nitrogen Dioxide (NO$_2$)	0 to 50 ppm
	0 to 200 ppm
Oxygen (O$_2$)	0 to 30% vol.
Sulfur Dioxide (SO$_2$)	0 to 50 ppm
	0 to 500 ppm

*Additional gases and ranges available (consult manufacturer)

Detection Principal
Electrochemical

Detection Method
Diffusion

Response Time
T90 <5 sec. (depending on gas)

Expected Sensor Life
2 years (depending on gas)

Display
4 digit LCD (EC36 backlit)
Power, Alarm and Fault LED's (EC36)

Weight
2 lbs.

Dimensions
7.5 x 7.9 x 4.8 in. WxHxD (190 x 200 x 120 cm)

Power Supply
115V AC / 24V DC

Output Signal
Linear 4 to 20mA

Relays
2 alarm points, 1 fault – voltage free
Voltage: 250V AC 50/60 Hz or 250V DC max.
Current: 4A AC/DC max.

Horn
95 dba at one foot

Temperature Range
+5 to +115 ˚F (-15 to +46 ˚C)

Humidity Range
15 to 96% rh

Pressure Range
920 to 1080 hPa

Housing
UL 94 HB polystyrene enclosure with clear polycarbonate lid

Housing Approvals
IP 65

Options
Remote Display/Control

Specifications subject to change without notification

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