

# **Q8 SERIES**

## **Explosion Proof Gas Sensor**

The new Q8 Series of Explosion Proof Gas Detectors are used for applications that require a more rugged enclosure and meet Class 1 Division 1 requirements. Each unit comes standard with a digital display of concentration, relay status, STEL, TWA and peak daily value of the gas detected. A three color backlight will flash depending on the level of alarm for operator safety. Set up and calibration is accomplished through non-intrusive hardware that allows programming of all parameters. Remote sensors are available for all types of gases. Sensor types include electrochemical, catalytic bead, and infrared to meet the demands and performance standards of particular industries. Communication is accomplished through Optomux and Modbus RS 485, 4-20mA, and three user programmable relay contacts. Remote explosion proof sensing is available for all types of sensing technologies.



#### **SPECIFICATIONS Input Power** 24VDC nominal, range 18 to 30VDC, 0.3A DC Total Max. | 24VAC nominal, range 15 to 24VAC, 0.3A AC Total Max. (AC must not be grounded) Fuse F2 on Main Board: Polyswitch 750mA Polyswitch device resets after the fault is cleared and power to the circuit is removed Combustible gases: Catalytic or NDIR | Toxic gases and Oxygen: Electrochemical | Carbon Dioxide: Non-Dispersive Infra-Red Sensor **Panel Indicators** 5 Status LED's: RS-485 TX Status (Green) | RS-485 RX Status (Green) | Relay1 Status (Red) | Relay2 Status (Red) Relay2 Status (Red) Display LCD graphic display c/w backlight Keypad 3 magnetic switches: F1, F2, F3 Relays 3 Relays SPDT, Dry contacts: 1.0A maximum at 30 VDC (resistive load) | 0.3A maximum at 125VAC (resistive load) **Enclosure** Aluminium Pressure Die-Casting Entries: 2X 3/4 NPT **Operating Temp** -40°C to 70°C, depends on sensor specification **Ambient Humidity** 5% to 95% RH (non-condensing) Storage Temp 0°C to 40°C, depends on sensor specification **Product Dimensions** 5.70" X 7.48" X 5.11"

#### ORDERING

Select one Gas Type (A), one Span (B) and one Enclosure Type (C).

### A & B Gas Type (A) & Span (B)

- CH3CO Acetone, Catalytic Bead, 0-100% LEL (Span: 100L) OHBR Hydrogen Bromide, Electrochemical, 0-30 PPM (Span: **30P**) NH3 Ammonia, Electrochemical, 0-100 PPM (Span: 100P) HCL Hydrogen Chloride, Electrochemical, 0-30 PPM (Span: **30P**) NH3 Ammonia, Electrochemical, 0-1000 PPM (Span: 1000P) O HCN Hydrogen Cyanide, Electrochemical, 0-50 PPM (Span: **50P**) ASH3 Arsine, Electrochemical, 0-1 PPM (Span: 1P) ○ **H2S** Hydrogen Sulphide, Electrochemical, 0-25 PPM (Span: **25P**) C6H6 Benzene, Catalytic Bead, 0-100% LEL (Span: 100L) O **H2S** Hydrogen Sulphide, Electrochemical, 0-100 PPM (Span: **100P**) C4H10 Iso-Butane, Catalytic Bead, 0-100% LEL (Span: 100L) CH4 Methane, Catalytic Bead, 0-100% LEL (Span: 100L) OBUTAN Butanol, n-Butane, Catalytic Bead, 0-100% LEL (Span: 100L) CH30H Methanol, Catalytic Bead, 0-100% LEL (Span: 100L) O CO Carbon Monoxide, Electrochemical, 0-250 PPM (Span: **250P**) NO Nitric Oxide, Electrochemical, 0-100 PPM (Span: 100P) O CO Carbon Monoxide, Electrochemical, 0-1000 PPM (Span: 1000P) NO2 Nitrogen Dioxide, Electrochemical, 0-10 PPM (Span: 10P) CL2 Chlorine, Electrochemical, 0-5 PPM (Span: **5P**) O2 Oxygen, Electrochemical, 0-25% VOL (Span: 25V) O CLO2 Chlorine Dioxide, Electrochemical, 0-2 PPM (Span: 2P) O3 Ozone, Electrochemical, 0-1 PPM (Span: 1P) ○ **GENL**\* (\*specify) Combustible, Catalytic Bead, 0-100% LEL (Span: **100L**\*) C5H12 Iso-Pentane, Catalytic Bead, 0-100% LEL (Span: 100L) B2H6 Diborane, Electrochemical, 0-2 PPM (Span: 2P) PH3 Phosphine, Electrochemical, 0-1 PPM (Span: 1P) C2H4 Ethylene, Catalytic Bead, 0-100% LEL (Span: 100L) PH3 Phosphine, Electrochemical, 0-5 PPM (Span: 5P) GEH4 Germane, Electrochemical, 0-2 PPM (Span: 2P) C3H8 Propane, Catalytic Bead, 0-100% LEL (Span: 100L) H2 Hydrogen, Electrochemical, 0-1000 PPM (Span: 1000P) SIH4 Silane, Electrochemical, 0-50 PPM (Span: **50P**) H2 Hydrogen, Electrochemical, 0-2000 PPM (Span: 2000P) SO2 Sulphur Dioxide, Electrochemical, 0-6 PPM (Span: 6P) O H2 Hydrogen, Catalytic Bead, 0-100% LEL (Span: 100L)
- C

#### Enclosure

- 0 (Enclosure, Standard)
- OR (Enclosure with Remote Sensor)

#### **BUILD PART NUMBER**

After completing (A), (B), & (C) from the above table, fill in the Part Number Table below. An "example" part number is offered.



**EXAMPLE**: Q8 - ASH3 - 1P - R - X