

QEL Q6/B6 Series Smart Combo Gas Transmitters

The **Q6/B6 Series Smart toxic/combustible gas sensor/transmitters** use various sensing technologies to detect a wide assortment of gases. The units are housed in a NEMA 4X enclosure with an integral buzzer that will meet the most stringent of applications. The main unit features an LCD display of gas concentration, LED indication of the relays, and Tx/Rx for RS-485, Modbus, or BACnet communications. Pre-calibrated sensors can be purchased and installed by the user, thereby reducing calibration and minimizing downtime. The user can select from multiple screens from the menu that display relay status, time, TWA, STEL, peak daily value and concentrations of the two gases. Programming and calibration procedures are non proprietary and is accessed through a password that protects system integrity. The units can be installed as stand-alone or digitally connected with QEL controllers or third-party controllers. User-programmable relays and a buzzer are standard allowing several options to energize relays and buzzers through instant activation or upon user -selected time delays. The combo unit consists of a main unit with display, relays and a remote unit for installation at high or low elevations based on mass of gases detected. Remote sensor capability minimizes response times due to much lighter or much heavier than air gas pooling at floor and ceiling heights.



KEY FEATURES:

- ▶ Uses Electrochemical, Catalytic Bead and Infrared Sensors
- ▶ Pre-calibrated sensors available for easy replacement without calibration
- ▶ Three on-board user-programmable relays common to both sensors
- ▶ Non-proprietary set-up and calibration procedures
- ▶ Removeable terminal blocks for easy wiring
- ▶ Digital display of concentration, relay status, TWA, STEL, PDV
- ▶ Stand-alone operation
- ▶ RS-485 communication to QEL controller.
- ▶ RS-485 communication through BACnet and Modbus
- ▶ Integral buzzer with three tones
- ▶ Splash guard available
- ▶ Duct mount available
- ▶ Flow/through/calibration cap available
- ▶ Operates on 24 VAC/VDC

MODEL NUMBER ORDERING CODE

6 - C O - 2 5 0 P - - X

Q... QEL
B... BACnet®

Enclosure Type

Enclosure, Standard.....O
Enclosure w/Pump-thru Cap Kit.....P
Enclosure w/Splash Guard Kit.....S
Enclosure w/Duct-Mount Kit.....D
Factory Provided.....X



Q 6 R - - - - - - - - - - X

Gas Ordering Code
(See Below for Code)

Span Ordering Code
(See Below for Code)

Enclosure Type

Enclosure, Standard.....O
Enclosure w/Pump-thru Cap Kit.....P
Enclosure w/Splash Guard Kit.....S
Enclosure w/Duct Mount Kit.....D
Factory Provided.....X



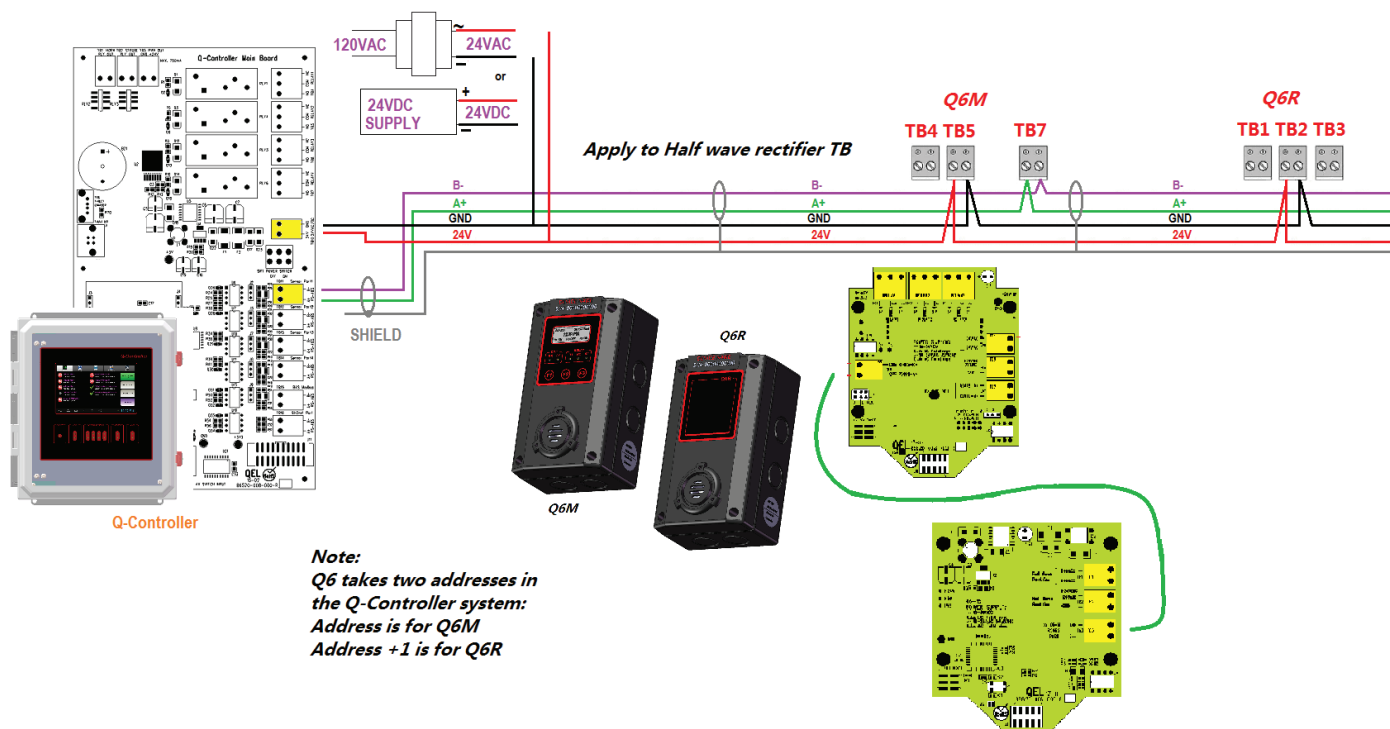
Gas Type, Technology, Span Range	Gas Ordering Code	Span Ordering Code
Nitrogen Dioxide, Electrochemical, 0-10 PPM	NO2	10P
Benzene, Catalytic Bead, 0-100%LEL	C6H6	100L
Hydrogen, Catalytic Bead, 0-100%LEL	H2	100L
Methane, Catalytic Bead, 0-100%LEL	CH4	100L
Methanol, Catalytic Bead, 0-100%LEL	CH3OH	100L
Propane, Catalytic Bead, 0-100%LEL	C3H8	100L
More gases available upon request.		



QUATROSENSE
ENVIRONMENTAL
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ELECTRICAL AND MECHANICAL SPECIFICATIONS

Input Power:

24 VDC Nominal, range 18-30 VDC, 0.3 A DC Total Max
24 VAC Nominal, range 15-24 VAC, 0.3 A AC Total Max
AC Must **Not** be grounded

Fuse:

F2 on Main Board: Polyswitch 750 mA
Polyswitch resets after Fault 15 cleared and powered up

Sensor:

Combustible Gases: Catalytic Bead
Toxic Gases: Electrochemical, Infrared

Sampling: Diffusion or Pump-through

Panel Indicators:

5 Status LED's

- ▶ RS-485 TX Status (Green)
- ▶ RS-485 RX Status (Green)
- ▶ Relay 1 Status (Red)
- ▶ Relay 2 Status (Red)
- ▶ Relay 3 Status (Red)

Display:

LCD graphic display c/w backlight

Keypad:

3 Capacitive touch sensing keys: F1, F2, F3

Relays:

- 3 Relays SPDT, dry contacts
- ▶ 1.0 A maximum at 30 VDC (resistive load)
- ▶ 0.3 A maximum at 125 VAC (resistive load)

Buzzer: 80 db at 10 cm, 2700 Hz
Buzzer with 3 programmable tones

Output signal:

RS-485 with QEL Controller Protocol; Connects to Q4C Controller, M-Controller, and Q-Controller. BACnet, Modbus to other Controllers

Enclosure Rating:

IP 66 & NEMA 4, 4X, 12 & 13

Operating Temperature:

-40° C to 70° C, depends on sensor specification

Ambient Humidity:

5% to 95% RH (non-condensing)

Storage Temperature:

0° C to 40° C, depends on sensor specification

Size: Main: 150 mm x 90 mm x 65 mm

Remote: 150 mm X 90 mm X 65 mm

Weight: Less than 1.0 lbs

Ensure a complete understanding of all applicable Federal, State, Provincial and Local Health and Safety laws and regulations before using these products.



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This brochure includes general specifications which are subject to change.