



# TWO CHANNEL WALL MOUNT CONTROLLER

Gas Detection For Life

Beacon™ 200 Model



**Affordable 2 Point Monitor**

## Features:

- Simultaneous readout on 2 channels
- Two alarm levels per channel
- Discrete and common relays
- Built in audible alarm
- NEMA 4X enclosure
- 4-20 mA outputs
- Proven, long-life sensors for a wide variety of gases
- Accepts any 4-20 mA transmitter input (24 VDC)
- Easy to install, operate and expand
- CSA, C/US classified

## Industry Applications:

- Petrochemical plants
- Refineries
- Water & wastewater treatment plants
- Pulp & paper mills
- Gas, telephone, & electric utilities
- Parking garages
- Manufacturing facilities
- Steel
- Automotive
- HVAC

The Beacon™ 200 is a powerful, low cost fixed system controller for two points of gas detection. It is microprocessor controlled, versatile, simple to install and operate, and priced to be the industry's most economical two point controller. It is capable of connecting directly to RKI sensors for LEL level combustibles, Oxygen, Hydrogen Sulfide, or Carbon Monoxide. The Beacon™ 200 can also accept any 4-20 mA transmitter (2 or 3 wire, 24 VDC). Sensors can be mounted directly at the Beacon™ 200 housing, or can be wired remotely from the controller.

The 10 amp rated relays are strong enough to actuate most external alarms and horns without using slave relays. The digital display has backlighting and simultaneous readout of the gas type and concentration.

The Beacon™ 200's housing is rated NEMA 4X for corrosion resistance and a weather tight seal, and complies with lock out / tag out standards. An external reset switch allows the alarm to be silenced from outside of the controller housing. The Beacon™ 200 comes complete with a wall mounting kit for easy installation.

RKI offers the industry's widest selection of standard and toxic gas detection sensors, which can be utilized with the Beacon™ 200, providing gas monitoring protection for almost any application.

# Beacon™ 200 Model

## Physical

|                           |   |
|---------------------------|---|
| <b>Dimensions</b>         | Height: 10.5" (267 mm)      Width: 8.5" (216 mm)      Depth: 6.3" (158 mm)                              |
| <b>Enclosure</b>          | Wall mounting grey polycarbonate with hinged cover  |
| <b>Conduit Connection</b> | 3/4" NPT conduit hubs, 3 provided. 2 for sensor wiring and 1 for power & relay wiring                   |
| <b>Wiring Termination</b> | Screw type terminal block, 14 gauge max   |
| <b>Power</b>              | 115 VAC or 24 VDC standard, Optional 230 VAC. Battery backup option available                           |
| <b>Controls</b>           | 4 internal push buttons for setup, programming, and calibration. 1 external push button for alarm reset |

## Environmental

|                              |  |
|------------------------------|--|
| <b>Operating Temperature</b> | 14°F to 122°F (-10°C to 50°C)                                  |
| <b>Storage Temperature</b>   | -4°F to 158°F (-20°C to 70°C)                                  |
| <b>Relative Humidity</b>     | 5 - 95% RH (non-condensing) 80% max for CSA                    |
| <b>Enclosure Rating</b>      | NEMA-4X enclosure, waterproof, chemical, and weather resistant |

## Inputs

|                             |   |
|-----------------------------|---|
| <b>Direct Wired Sensors</b> | LEL, Oxygen, Carbon Monoxide, Hydrogen Sulfide; Remote amp required for greater than 500 feet   |
| <b>4-20 mA Sensors</b>      | Accepts any 4-20 mA transmitter (24 VDC, 2 or 3 wire). A wide variety of RKI/Riken sensors are available with 4-20 mA signals; (See list of detectable gases.) Wiring distances up to 5000 feet |
| <b>Sampling Methods</b>     | Accepts diffusion or sample draw heads  |

## Outputs

|                  |  |
|------------------|--|
| <b>Relays</b>    | 7 relays - 10 amp rating (at 115 VAC), SPDT isolated contacts. 2 relays for gas alarm levels per channel, plus 2 relays for common gas alarm and 1 common relay for malfunction. Relays fully programmable for: increasing or decreasing alarm, latching or self reset, normally energized or normally de-energized, time delay for alarm on and alarm off |
| <b>4-20 mA</b>   | Signal output, 4-20 mA (into 1000 ohms impedance maximum), per channel   |
| <b>24 VDC</b>    | 24 VDC (350 mA max) output provided to operate sample drawing adapters   |
| <b>Display</b>   | Alphanumeric display with backlighting. 20 characters per line; 4 lines each   |
| <b>Audible</b>   | Built-in audible alarm, 94 dB, mounted on enclosure<br>Coded output: pulsing = gas alarm, steady = fail  |
| <b>Visual</b>    | 4 LED's on the front cover for alarm status indication, pilot, and malfunction   |
| <b>Warranty</b>  | One year materials and workmanship   |
| <b>Approvals</b> | CSA Certified to CSA C22.2 No. 1010 and ANSI/ISA S82.01  |

Specifications subject to change without notice.

Made in the USA



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