TWO CHANNEL WALL MOUNT CONTROLLER

RKI INSTRUMENTS

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.

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World Leader In Gas Detection & Sensor Technology
www.rkiinstruments.com

Beacon™ 200 Model

Physical

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

Environmental

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

Inputs

Direct Wired Sensors	LEL, Oxygen, Carbon Monoxide, Hydrogen Sulfide; Remote amp required for greater than 500 feet
4-20 mA Sensors	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
Sampling Methods	Accepts diffusion or sample draw heads

Outputs

Relays	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
4-20 mA	Signal output, 4-20 mA (into 1000 ohms impedance maximum), per channel
24 VDC	24 VDC (350 mA max) output provided to operate sample drawing adapters
Display	Alphanumeric display with backlighting. 20 characters per line; 4 lines each
Audible	Built-in audible alarm, 94 dB, mounted on enclosure Coded output: pulsing = gas alarm, steady = fail
Visual	4 LED's on the front cover for alarm status indication, pilot, and malfunction
Warranty	One year materials and workmanship
Approvals	CSA Certified to CSA C22.2 No. 1010 and ANSI/ISA S82.01

Specifications subject to change without notice.   *Made in the USA*