

2 CHANNEL WALL MOUNT CONTROLLER

Gas Detection for Life

Beacon 200 Model



Features

- Simultaneous readout on 2 channels
- Two alarm levels per channel
- Discrete and common relays
- NEMA 4X enclosure
- 4 – 20 mA outputs
- Proven, long life sensors for a wide variety of gases
- Accepts any 4 – 20 mA transmitter input
- Easy to install, operate and expand
- Intrinsically safe design
- Min/max display

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 RKI sensors directly for LEL level combustibles, Oxygen, Hydrogen Sulphide 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 directly power 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 NEMA 4X rated for 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 utilised with the Beacon 200, providing gas monitoring protection for almost any application.



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Beacon 200 Model

Physical	
Dimensions:	Height 216mm Width 178 mm Depth: 109 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 and 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 Temp:	-20°C to 50°C
Storage Temp:	-20°C to 70°C
Relative Humidity:	0 – 100% RH
Enclosure Rating:	NEMA-4X enclosure, waterproof, chemical and weather resistant.
Inputs	
Direct Wired Sensors:	LEL/PPM Hydrocarbon, Oxygen, Carbon Monoxide, Hydrogen Sulphide, Chlorine, Sulphur Dioxide. Remote amp not required for less than 50 feet.
4-20 mA Sensors:	Accepts any 4-20 mA transmitters (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 5,000 metres.
Sampling methods:	Diffusion and sample draw heads available.
Outputs	
Relays:	4 relays – 10 amp rating (at 115 VAC), SPDT isolated contacts. 2 relays for gas alarm levels, 1 relay for malfunction. <i>Relays fully programmable for:</i> increasing or decreasing alarms, 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)
24 VDC:	24 VDC (350 mA max) output provided to operate sample draw adapters or other accessories
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 visual LED alarms on front cover for status indication, pilot and malfunction.
Warranty:	Two years materials and workmanship.

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