

# Beacon 200

## 2 Channel Wall Mount Gas Detection Controller

- 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

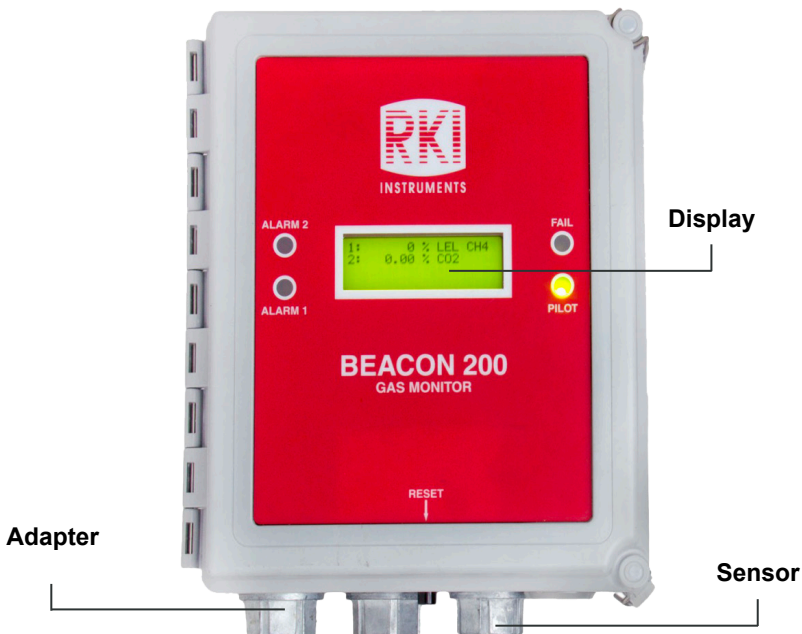
### OVERVIEW

This low cost fixed system controller is designed to accept up to two points of gas detection. It is capable of connecting directly to a variety of gas sensors. The Beacon 200 can also accept any 4-20 mA transmitter (2 or 3 wire, 24 VDC).



### APPLICATIONS

- Petrochemical plants
- Water & wastewater treatment plants
- Pulp & paper mills
- Gas, telephone & electric utilities
- Manufacturing facilities
- Refineries
- Carparks
- Steel



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Physical	
<b>Dimensions</b>	Height: 216 mm Width: 178 mm Depth: 109 mm
<b>Enclosure</b>	Wall mounting grey polycarbonate with hinged cover
<b>Conduit connection</b>	3/4" NPT conduit hubs, 2 provided, 1 for sensor wiring and 1 for power and relay wiring
<b>Wiring termination</b>	Screw type terminal block 14 gauge max
<b>Power</b>	240 VAC or 24 VDC. Optional – 115 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 temp</b>	-20°C to 50°C
<b>Storage temp</b>	-20°C to 70°C
<b>Relative humidity</b>	0 – 100% RH
<b>Enclosure rating</b>	NEMA-4X enclosure, waterproof, chemical and weather resistant
Inputs	
<b>Direct wired sensors</b>	LEL/PPM Hydrocarbon, Oxygen, Carbon Monoxide, Hydrogen Sulphide, Chlorine, Sulphur Dioxide Remote amp not required for less than 15 metres
<b>4-20 mA</b>	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 Wiring distances up to 5,000 meters
<b>Sampling methods</b>	Diffusion and sample draw heads available
Outputs	
<b>Relays</b>	4 relays – 10 amp rating, SPDT isolated contacts. 2 relays for gas alarm levels, 1 relay for malfunction Relays fully programmable for: <ul style="list-style-type: none"> <li>increasing or decreasing alarms,</li> <li>latching or self reset,</li> <li>normally energized or normally de-energized,</li> <li>time delay for alarm on and alarm off</li> </ul>
<b>4-20 mA</b>	Signal output, 4-20 mA (into 1000 ohms impedance maximum)
<b>24 VDC</b>	24 VDC (350 mA max) output provided to operate sample draw adapters or other accessories
<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. Coded output: Pulsing = gas alarm, Steady = fail
<b>Visual</b>	4 visual LED alarms on front cover for status indication, pilot and malfunction
<b>Warranty</b>	One year materials and workmanship

Partial List of Detectable Gases					
Many other gases or ranges available. Contact Control Equipment for gases or ranges not listed					
<b>Ammonia (NH<sub>3</sub>)</b>	0 – 75.0 ppm	<b>Combustibles</b>	0 – 100% LEL	<b>Nitrogen Dioxide (NO<sub>2</sub>)</b>	0 – 15.0 ppm
<b>Arsine (AsH<sub>3</sub>)</b>	0 – 0.2 ppm	<b>Diborane (B<sub>2</sub>H<sub>6</sub>)</b>	0 – 30.0 ppm	<b>Nitrogen Trifluoride (NF<sub>3</sub>)</b>	0 – 30.0 ppm
<b>Boron Trichloride (BCl<sub>3</sub>)</b>	0 – 15.0 ppm	<b>Fluorine (F<sub>2</sub>)</b>	0 – 5/15 ppm	<b>Oxygen (O<sub>2</sub>)</b>	0 – 25.0%
<b>Carbon Dioxide (CO<sub>2</sub>)</b>	0 – 1.0 %	<b>Hydrogen (H<sub>2</sub>)</b>	0 – 2000 ppm	<b>Ozone (O<sub>3</sub>)</b>	0 – 1.0 ppm
<b>Carbon Monoxide (CO)</b>	0 – 300 ppm	<b>Hydrogen Chloride (HCl)</b>	0 – 15.0 ppm	<b>Phosphine (PH<sub>3</sub>)</b>	0 – 1.0 ppm
<b>Chlorine (Cl<sub>2</sub>)</b>	0 – 3.0 ppm	<b>Hydrogen Fluoride (HF)</b>	0 – 9.0 ppm	<b>Silane (SiH<sub>4</sub>)</b>	0 – 15.0 ppm
<b>Chlorine Dioxide (ClO<sub>2</sub>)</b>	0 – 1.0 ppm	<b>Hydrogen Sulfide (H<sub>2</sub>S)</b>	0 – 100.0 ppm	<b>Sulphur Dioxide (SO<sub>2</sub>)</b>	0 – 30.0 ppm
		<b>Nitric Oxide (NO)</b>	0 – 100.0 ppm	<b>TEOS (Si(OC<sub>2</sub>H<sub>5</sub>)<sub>4</sub>)</b>	0 – 15/30 ppm