Technical Data Sheet

Beacon 200 Two Channel Wall Mount Controller by RKI Instruments

Brand / manufacturer	RKI Instruments
Product codes	SKU: 72-2102RK

Product description

RKI Instruments Beacon® 200 two-channel wall-mount controller (115–220 VAC, no sensor): a powerful, low-cost, microprocessor-controlled fixed system controller for two points of gas detection.

Key benefits

- Simultaneous readout on 2 channels with backlit display of gas type and concentration
- Two alarm levels per channel; discrete and common relays rated 10 A to drive most external alarms and horns
- Connects directly to RKI LEL, oxygen, H2S or CO sensors, or any 4-20 mA transmitter (2 or 3 wire, 24 VDC)
- Sensors mount at the housing or wire remotely
- 4-20 mA outputs
- NEMA 4X housing for corrosion resistance and weather-tight seal; complies with lock-out/tag-out standards
- External reset switch silences alarm from outside the housing
- Wall mounting kit included
- Made in the USA

Specifications

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
Controls	4 internal push buttons for setup, programming, and calibration. 1 external push button for alarm reset
Environmental	
Operating Temp	-4°F to 122°F (-10°C to 50°C)
Storage Temp	-4°F to 158°F (-20°C to 70°C)
Relative Humidity	0 – 100% RH
Enclosure Rating	NEMA-4X enclosure, waterproof, chemical, and weather resistant
Inputs	

Prepared by Russmill Safety from publicly available manufacturer information and our product listing. This is not the manufacturer’s original publication. For legally required safety data, use the manufacturer’s official Safety Data Sheet.

Prepared by Russmill Safety · November 2026

Direct Wired Sensors	LEL, Oxygen, Carbon Monoxide, Hydrogen Sulfide Remote amp not required for less 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	Diffusion and sample draw heads available
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 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 LED’s on the front cover for alarm status indication, pilot, and malfunction
Optional Expansion Cards	Individual 4-20 mA (or 1 – 5 VDC) outputs Heavy duty relay card (4 each @ 30 amps)
Power	110-240 VAC or 24 VDC standard. Battery backup option available
Warranty	One year materials and workmanship
Partial List Of Detectable Gases Many other gases or ranges available. Contact RKI for gases or ranges not listed.	
Ammonia (NH_3)	0 – 75.0 ppm
Arsine (AsH_3)	0 – 0.20 ppm
Boron Trichloride (BCl_3)	0 – 15.0 ppm
Carbon Dioxide (CO_2)	0 – 1.0 %
Carbon Monoxide (CO)	0 – 300 ppm
Chlorine (Cl_2)	0 – 3.0 ppm
Chlorine Dioxide (ClO_2)	0 – 1.00 ppm
Chlorine Trifluoride (ClF_3)	0 – 1.00 ppm
Combustibles	0 -100% LEL
Diborane (B_2H_6)	0 – 30.0 ppm
Fluorine (F_2)	0 – 6.0 ppm

Hydrogen (H_2)	0 – 2000 ppm
Hydrogen Chloride (HCl)	0 – 15.0 ppm
Hydrogen Fluoride (HF)	0 – 9.0 ppm
Hydrogen Sulfide (H_2S)	0 -100.0 ppm
Nitric Oxide (NO)	0 -100.0 ppm
Nitrogen Dioxide (NO_2)	0 – 15.0 ppm
Nitrogen Trifluoride (NF_3)	0 – 30.0 ppm
Oxygen (O_2)	0 – 25.0 %
Ozone (O_3)	0 – 1.0 ppm
Phosphine (PH_3)	0 – 1.0 ppm
Silane (SiH_4)	0 – 15.0 ppm
Sulfur Dioxide (SO_2)	0 – 30.0 ppm
TEOS ($Si(OC_2H_5)_4$)	0 -15/30 ppm

Specifications subject to change without notice.

Information source

Russmill Safety product listing — https://www.russmillsafety.com/products/beacon-200-two-channel-wall-mount-controller (listing notes product information supplied by the manufacturer, RKI Instruments)

Supplier / distributor contact

Supplier / distributor	Russmill Safety
Store	A1 Queen’s Highway, Suite 2–3, Freeport, Grand Bahama F42190, The Bahamas
USA warehouse (fulfilment)	1526 NW 23rd Avenue, Fort Lauderdale, FL 33311
Phone	Bahamas customer service +1 242 351 7623 · USA +1 954 333 8542 · Freeport store +1 242 688 3336
Email	customerservice@russmillsafety.com (customer service) · sales@russmillsafety.com (sales enquiries)
Website	https://www.russmillsafety.com