

# Beacon 800

## 8 Channel Wall Mount Gas Detection Controller

- Low cost versatile solution
- Capable of up to 8 separate channels
- Digital display of all 8 channels simultaneously
- Compact, weatherproof, NEMA 4X enclosure
- 240 VAC or 24 VDC operation
- Long life sensors (2+ years typical)
- Accepts any 4-20 mA transmitter
- Audible alarm with reset button
- Two programmable alarm levels per channel
- Common alarm and fail relays
- Relay rating 10 amps, form C
- View min/max reading
- Adjustable timer delay on/off

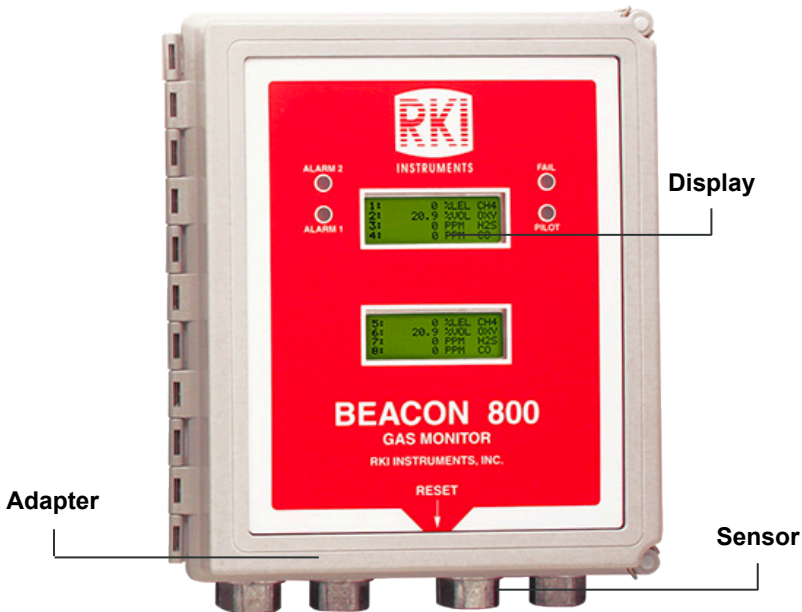


### OVERVIEW

The Beacon 800 is a versatile, low cost fixed system controller for one to eight points of gas detection. The 2 large digital displays have backlighting and easily identify both the gas type and the gas concentration for all 8 channels simultaneously. The Beacon 800 is housed in a NEMA 4X rated case for a weather tight seal.

### OVERVIEW

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



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Physical	
<b>Dimensions</b>	Height 318mm Width 279 mm Depth: 163 mm
<b>Enclosure</b>	Wall mounting grey polycarbonate with hinged cover
<b>Conduit connection</b>	3/4" NPT conduit hubs, 4 provided for sensors, power and relay wiring
<b>Wiring termination</b>	Screw type terminal block 14 gauge max
Environmental	
<b>Operating temp</b>	-20°C to 50°C
<b>Storage temp</b>	-20°C to 70°C
<b>Relative humidity</b>	0 to 100% RH
<b>Enclosure rating</b>	NEMA-4X enclosure, waterproof, chemical and weather resistant
Inputs	
<b>4-20 mA</b>	Accepts any 4-20 mA transmitters (24 VDC, 2 or 3 wire). Wiring distances up to 1,500 metres
<b>Sampling methods</b>	Diffusion and sample draw heads available. Carbon Monoxide (CO) 0 - 150 ppm, Combustibles 0 -100% LEL, Nitrogen Dioxide (NO2) 0 - 15.0 ppm (Refer to list of detectable Gases for additional ranges)
Outputs	
<b>Relays</b>	2 relays per channel 10 amp rating, SPDT isolated contacts. 1 set of common relays: 2 for gas alarm levels, 1 for malfunction Relays fully programmable for: increasing or decreasing alarms, latching or self reset, normally energized or normally deenergized, time delay for alarm on and alarm off
<b>24 VDC</b>	24 VDC output provided to operate sample draw adapters or other accessories
<b>Display</b>	2 alphanumeric displays with backlighting. 16 characters per line; 4 lines each All 8 channels continuously displayed
<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 alarm indications, pilot and malfunction
<b>Optional expansion cards</b>	Individual 4-20 mA (or 1-5 VDC) outputs. Heavy duty relay card (4 each @ 30 amps)
<b>Power</b>	240 VAC or 24 VDC. Optional – 115 VAC. Battery backup option available
<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 (NH3)</b>	0 – 75.0 ppm	<b>Combustibles</b>	0 – 100% LEL	<b>Nitrogen Dioxide (NO2)</b>	0 – 15.0 ppm
<b>Arsine (AsH3)</b>	0 – 0.2 ppm	<b>Diborane (B2H6)</b>	0 – 30.0 ppm	<b>Nitrogen Trifluoride (NF3)</b>	0 – 30.0 ppm
<b>Boron Trichloride (BCl3)</b>	0 – 15.0 ppm	<b>Fluorine (F2)</b>	0 – 5/15 ppm	<b>Oxygen (O2)</b>	0 – 25.0%
<b>Carbon Dioxide (CO2)</b>	0 – 1.0 %	<b>Hydrogen (H2)</b>	0 – 2000 ppm	<b>Ozone (O3)</b>	0 – 1.0 ppm
<b>Carbon Monoxide (CO)</b>	0 – 300 ppm	<b>Hydrogen Chloride (HCl)</b>	0 – 15.0 ppm	<b>Phosphine (PH3)</b>	0 – 1.0 ppm
<b>Chlorine (Cl2)</b>	0 – 3.0 ppm	<b>Hydrogen Fluoride (HF)</b>	0 – 9.0 ppm	<b>Silane (SiH4)</b>	0 – 15.0 ppm
<b>Chlorine Dioxide (ClO2)</b>	0 – 1.0 ppm	<b>Hydrogen Sulfide (H2S)</b>	0 – 100.0 ppm	<b>Sulphur Dioxide (SO2)</b>	0 – 30.0 ppm
<b>Chlorine Trifluoride (ClF3)</b>	0 – 1.0 ppm	<b>Nitric Oxide (NO)</b>	0 – 100.0 ppm	<b>TEOS (Si(OC2H5)4)</b>	0 – 15/30 ppm