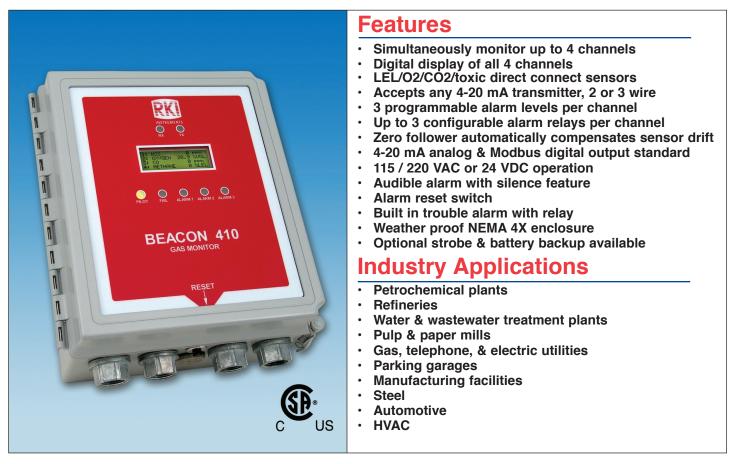


FOUR CHANNEL WALL MOUNT CONTROLLER

INSTRUMENTS

Gas Detection For Life

Beacon[™] 410 Model



The Beacon 410 is a highly configurable, microprocessor-based, flexible and easy to use 4 channel gas monitor. It simultaneously displays the gas type, readings, and status for 4 channels of gas detection. It can monitor any combination of direct connect sensors (LEL combustibles, Oxygen, Oxygen, CO2, and toxic gas sensors, and Carbon Dioxide) as well as any 4-20mA transmitters.

Each channel has 3 fully configurable alarm points. A built-in silenceable audible alarm alerts you to alarm conditions. Each channel also has 2 dedicated fully configurable relays and there is a bank of common relays as well. The common relays can optionally be configured as additional channel relays allowing up to 3 alarm relays per channel.

Each channel provides a 4-20mA output signal. A digital Modbus interface for remote logging of data via a Modbus network is standard. A Min-Max feature retains high & low peak readings for review at any time.

Field calibration is made simple by the easy to use *Calibration Mode*. A fully configurable high visibility *strobe* is available as an option. The unit can be powered from 115/220 VAC, an external 24 VDC source, or a 24 VDC *backup battery*. A trickle charging battery backup feature is also available as an option.

All features and functions of the Beacon 410 are controlled by easy to use menus on the **backlit LCD display**. The form-C (SPDT) relay contacts are rated at 10A, 250V, reducing or eliminating the need for additional slave relays. All features of the Beacon 410 are built into the unit so you never need to purchase or maintain any "add-on" cards or components.

RKI Instruments, Inc. • 33248 Central Ave. Union City, CA 94587 • Phone (800) 754-5165 • (510) 441-5656 • Fax (510) 441-5650

Physical

FIIYSICal	
Dimensions	Height: 12.5" (318 mm) x Width: 11" (279 mm) x Depth: 6.4" (136 mm)
Enclosure	NEMA 4X non-metallic for indoor and outdoor locations
Conduit Connection	3/4" NPT conduit hubs, 4 provided, for sensor, power, & relay wiring
Wiring Termination	Screw type terminal block, 14 gauge max
Power	115 VAC & 220 VAC, or 24 VDC nominal, battery backup option available
Controls	Display PCB Control Switches:• UP/YES push button switch• ESCAPE push button switch• External reset switch• On/Off toggle switch
Environmen	tal
Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Storage Temperature	-4°F to 158°F (-20°C to 70°C)
Relative Humidity	0 - 95% RH (non-condensing)
Enclosure Rating	NEMA-4X enclosure, chemical and weather resistant
Inputs	
Direct Wired Sensors	LEL, Oxygen, Carbon Dioxide, and toxic gas sensors. 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. Wiring distances up to 8,000 feet
Sampling Methods	Diffusion and sample draw heads available
Outputs	
Relays	Two flexible, programmable Form-C (C, NO, NC) relays per channel, plus five common relays (Fail, Alarm-1, Alarm-2, Alarm-3, Alarm-Any). Common relays may optionally be assigned to function as additional channel alarm relays, providing for up to three alarm relays per channel. 10A contact rating.
4-20 mA	Signal output, 4-20 mA (maximum load impedance 500 ohms), per channel
RS-485	Modbus format RS-485 serial output of all channel data, including gas reading and alarm status.
Display	4 x 20 backlit LCD display
Audible	Built-in audible alarm, 94 dB, mounted on enclosure Coded output: pulsing = gas alarm, steady = fail
Visual	 Alarm LED's (on Display PCB) Alarm 1, yellow Alarm 2, orange Alarm 3, red Fail, yellow Green Pilot LED to indicate AC power connected (on Display PCB) An optional 24 VDC NEMA 4X strobe mounted to top of case.
Approvals	CSA Certified to CSA C22.2 No. 1010 and ANSI / ISA S82.01
Warranty	One year materials and workmanship

Specifications subject to change without notice.

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Authorized Distributor:

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