

## FOUR CHANNEL WALL MOUNT CONTROLLER

## Gas Detection For Life

## Beacon<sup>™</sup> 410A Model



The Beacon 410A is a highly configurable, microprocessor-based, flexible and easy to use 4 channel gas monitoring controller. It simultaneously displays the gas type, readings, and status for four channels of gas detection. It can monitor any combination of direct connect sensors (LEL, O2, CO2, and toxic gas sensors), as well as any 4-20mA transmitter.

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

A fully configurable, high visibility strobe is available as an option. The unit can be powered from 115/220 VAC, or an external 24 VDC source. A trickle charging battery backup feature with battery assembly is also available as an option.

All features and functions of the Beacon 410A are controlled by easy to use menus on the OLED display. All features including form-C relay contacts of the Beacon 410A are built into the unit so you never need to purchase or maintain any "add-on" cards or components.

Optional Strobe Light rom attery \_ED t so you

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World Leader In Gas Detection & Sensor Technology www.rkiinstruments.com

Physical		
Dimensions	Height: 12.5" (31.8 cm) x Width: 11" (27.9 cm) x Depth: 6.4" (13.6 cm)	
Enclosure	NEMA 4X Fiberglass / polyester with lexan window 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	
<b>Optional Accessories</b>	Strobe light, and Battery Backup Assembly	
Controls	Display PCB Control Switches:• UP/YES push button switch• ESCAPE push button switch• External reset switch• External reset switch	

Environmental	
<b>Operating Temperature</b>	-40°F to 122°F (-40°C to 50°C)
Storage Temperature	-40°F to 158°F (-40°C to 70°C)
Enclosure Rating	NEMA-4X enclosure, chemical and weather resistant. Suitable for indoor and outdoor installations

Inputs	
Direct Wired Sensors	LEL, Oxygen, Carbon Dioxide, and toxic gas sensors. Amplifier not required for less than 500 feet
4-20 mA	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, 250V.
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	Four line OLED display
Audible	Built-in audible alarm, 94 dB, mounted on enclosure Coded output: pulsing = gas alarm, steady = fail
Visual	<ol> <li>Alarm LED's (on Display PCB)         <ul> <li>Alarm 1 = yellow</li> <li>Alarm 2 = orange</li> <li>Alarm 3 = red</li> <li>Fail = yellow</li> </ul> </li> <li>Green Pilot LED to indicate AC power connected (on Display PCB)</li> <li>An optional 24 VDC NEMA 4X strobe mounted to top of case.</li> </ol>

Approvals	CSA Certified to CSA C22.2 No. 61010-1-12 and UL61010-1
Warranty	One year materials and workmanship



**Authorized Distributor:**