

# H2S DETECTION FOR DRILL RIGS



Continuous Monitoring for Temporary Drill Sites



RKI Instruments is proud to announce our new RM series continuous gas monitors. These monitors are specifically designed for detection of H<sub>2</sub>S around temporary drilling rigs. All units include our long-life plug in electrochemical H<sub>2</sub>S sensor, range 0-100 ppm. All cable connections are protected by rugged strain relief cord grips, and sensors are mounted in an explosion proof enclosure that includes a convenient mounting bracket.



## Applications

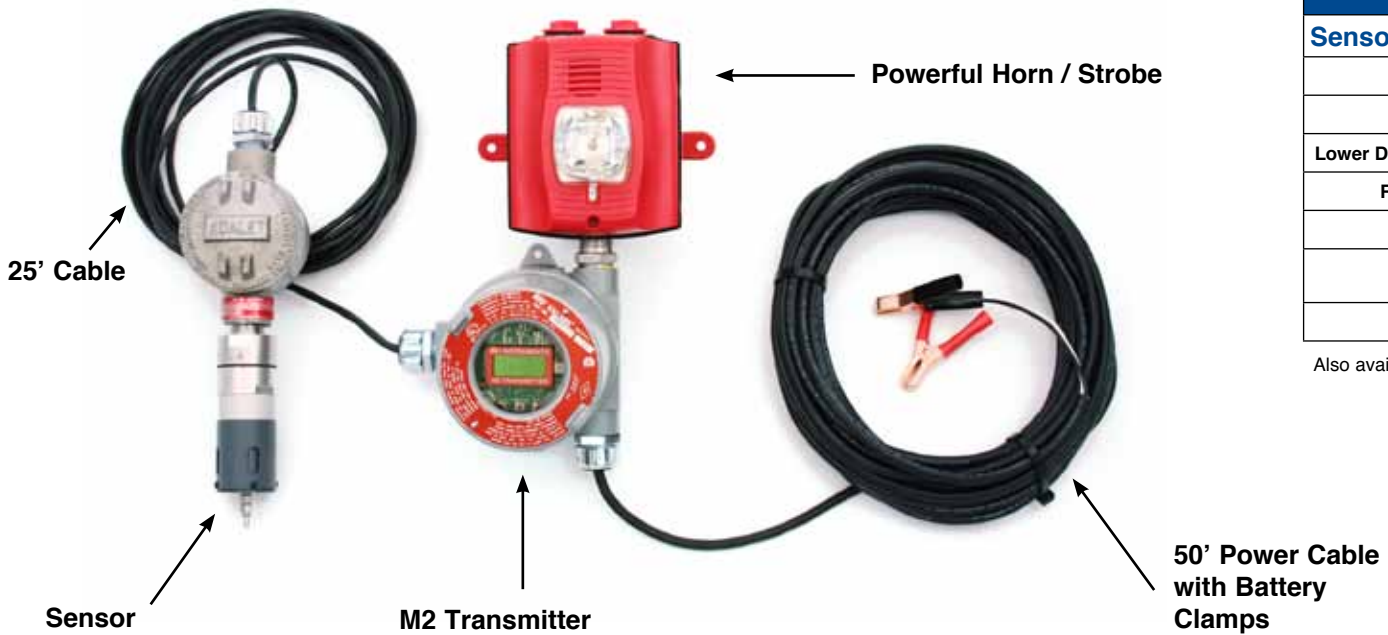
- Workover rigs
- Drilling rigs
- Fractionators
- Water reclamation
- Pumps
- Water haulers
- Exploration

World Leader In Gas Detection & Sensor Technology

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

[www.rkiinstruments.com](http://www.rkiinstruments.com)

# M2RM



Sensor	
Sensor	
Measuring Ranges	
Resolution	
Lower Detectable Limit (LDL)	
Response Time (T-90)	
Life Expectancy	
Accuracy	
Weather Resistant	

Also available for LEL detection:

Model M2RM: Based on our M2 platform, this version includes the standard M2 transmitter, outfitted with the sensor and splash/mud guard on a 25 ft. cable. Included is a 50 ft. power cable with battery clamps for connection to a user-provided 12 VDC battery. Also included is a powerful horn / strobe mounted directly to the M2 enclosure. All standard features of the M2 apply, including 4-20 ma and Modbus RS-485 output, large easy to read LCD display with backlight, and non-intrusive calibration.

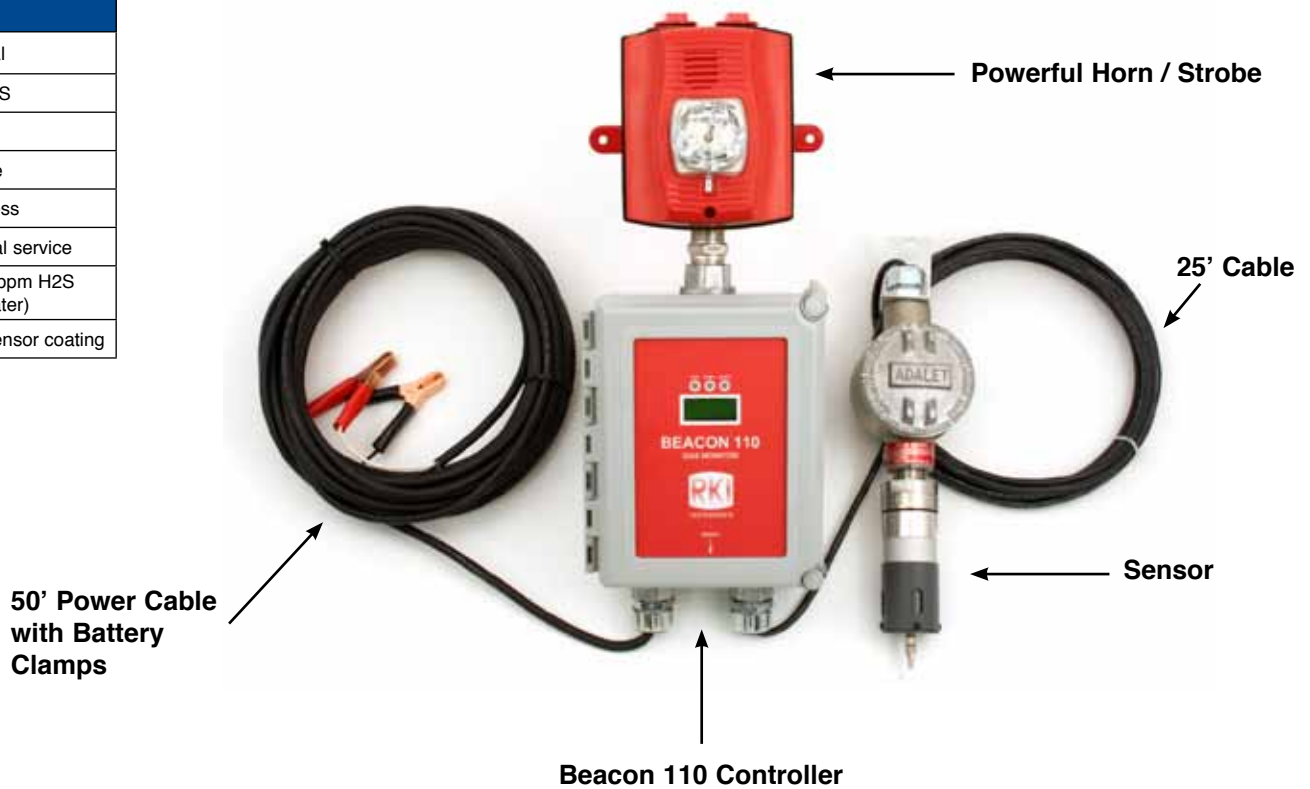
Transmitter Specification	
<b>Alarms</b>	
<b>Audible</b>	Powerful horn, 103 dB at 10 feet
<b>Visual</b>	Super bright, top mount strobe
<b>Alarm Settings</b>	Two fully programmable alarm set points, increasing / decreasing, latching / self-resetting, on delays, off delays, normally energized or de-energized
<b>Alarm Indication</b>	Visual LEDs. Alarm 1, Amber; Alarm 2, Red; Fail, Red Horn/strobe = alarm 1
<b>Relays</b>	5 amp form 'C' contacts for alarm 2, and fail
<b>Physical</b>	
<b>Dimensions</b>	Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) (Transmitter only)
<b>Enclosure Rating</b>	NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating
<b>Power Consumption</b>	500 mA @ 12 VDC (user supplied)
<b>Display</b>	Alphanumeric display with backlighting. 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup
<b>Controls</b>	Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup
<b>Operating Environment</b>	
<b>Operating Temperature</b>	-4°F to 122°F (-20°C to 50°C)
<b>Relative Humidity</b>	5 - 95% RH non-condensing
<b>Order Number</b>	65-2625RK-HR

# Beacon 110RM

## Specification

Electrochemical
0 - 100 ppm H <sub>2</sub> S
1 ppm
2% of full scale
35 Seconds or less
2 to 3 years with normal service
± 5% of reading or ± 2 ppm H <sub>2</sub> S (whichever is greater)
Patented water repellent sensor coating

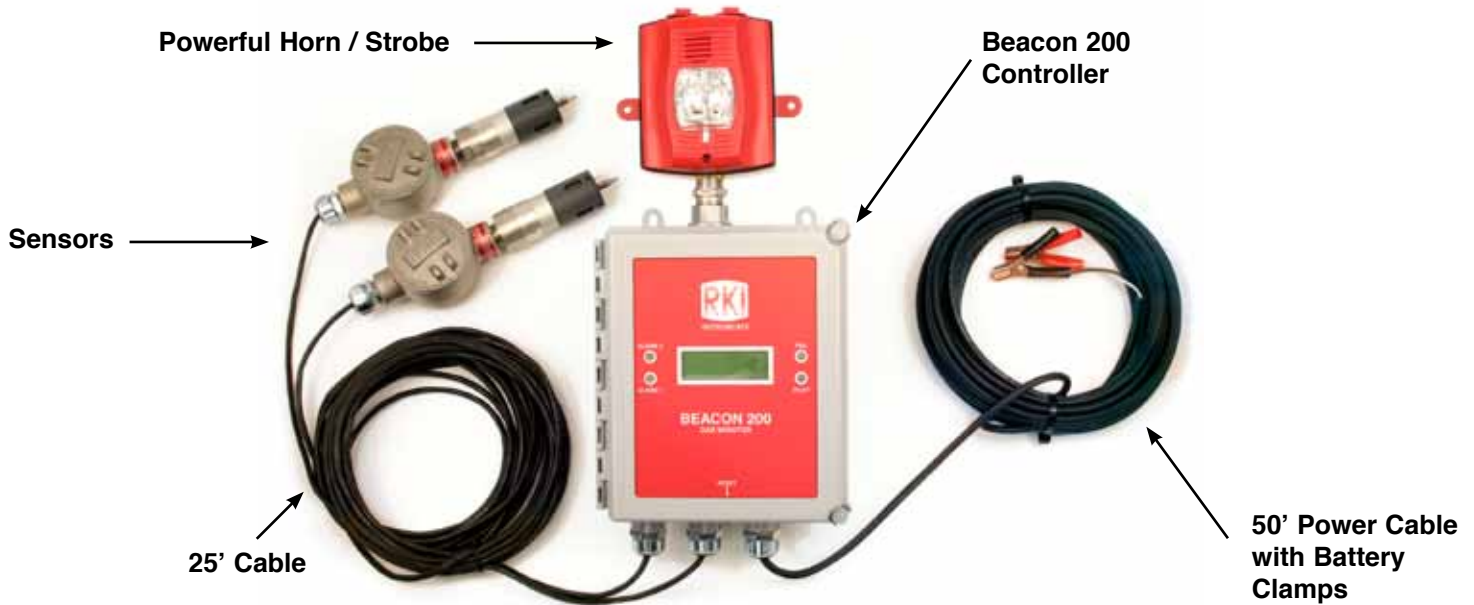
Consult factory



Model Beacon 110RM: Based on our Beacon 110 single channel controller, this version includes the standard Beacon 110 in NEMA 4X enclosure, outfitted with the sensor and splash/mud guard on a 25 ft. cable. Included is a 50 ft. power cable with battery clamps for connection to a user-provided 12 VDC battery. Also included is a powerful horn / strobe mounted directly to the Beacon 110. Standard features of the Beacon 110 include 4-20 ma and relay outputs, large easy to read LCD display with backlight, and simple calibration and setup routines through the front panel display and controls.

Controller Specifications			
<b>Alarms</b>			
<b>Audible</b>	Powerful horn, 103 dB at 10 feet		
<b>Visual</b>	Super bright, top mount strobe		
<b>Alarm Settings</b>	Two fully programmable alarm set points, increasing / decreasing, latching / self-resetting, on delays, off delays, normally energized or de-energized		
<b>Alarm Indication</b>	Visual LEDs. Alarm 1, Amber; Alarm 2, Red; Fail, Red Horn/strobe = alarm 1		
<b>Relays</b>	5 amp form 'C' contacts for alarm 2, and fail		
<b>Physical</b>			
<b>Dimensions</b>	Height: 8.5" (216 mm)	Width: 7.0" (178 mm)	Depth: 4.3" (109 mm) (Controller only)
<b>Enclosure</b>	Wall mounting grey fiberglass with hinged cover		
<b>Power Consumption</b>	500 mA @ 12 VDC (user supplied)		
<b>Display</b>	2 x 8 Alphanumeric display with backlighting		
<b>Controls</b>	3 internal push buttons for setup, programming, and calibration. 1 external push button for alarm reset.		
<b>Operating Environment</b>			
<b>Operating Temperature</b>	-4°F to 122°F (-20°C to 50°C)		
<b>Relative Humidity</b>	0 - 95% RH (non-condensing)		
<b>Enclosure Rating</b>	NEMA-4X enclosure, chemical, and weather resistant		
<b>Order Number</b>	72-2110RK-HR		

# Beacon 200RM



Model Beacon 200RM: Using our Beacon 200 two channel controller, this version includes the standard Beacon 200 in NEMA 4X enclosure, outfitted with two H2S sensors and splash/mud guards on 25 ft. cables. Included is a 50 ft. power cable with battery clamps, for connection to a user-provided 12 VDC battery. Also included is a powerful horn strobe mounted directly to the Beacon 110. Standard features of the Beacon 110 include 4-20 ma output, common and individual channel relays, large easy to read LCD display with backlight, and simple calibration and setup routines through the front panel display and controls.

## Controller Specification

Alarms	
<b>Audible</b>	Powerful horn, 103 dB at 10 feet
<b>Visual</b>	Super bright, top mount strobe
<b>Alarm Settings</b>	Two fully programmable alarm set points, increasing / decreasing, latching / self-resetting, on delays, off delays, normally energized or de-energized
<b>Alarm Indication</b>	Visual LEDs. Alarm 1, Amber; Alarm 2, Red; Fail, Red Horn/strobe = alarm 1
<b>Relays</b>	Low and high for each sensor, common for alarm 2 and fail. 5 amp form 'C' contacts
Physical	
<b>Dimensions</b>	Height: 10.5" (267 mm) x Width: 8.5" (216 mm) x Depth: 6.3" (158 mm) (Controller only)
<b>Enclosure</b>	Wall mounting grey polycarbonate with hinged cover
<b>Power Consumption</b>	850 mA @ 12 VDC (user supplied)
<b>Display</b>	Alphanumeric display with backlighting. 20 characters per line; 4 lines each
<b>Controls</b>	4 internal push buttons for setup, programming, and calibration. 1 external push button for alarm reset
Operating Environment	
<b>Operating Temperature</b>	-4°F to 122°F (-10°C to 50°C)
<b>Relative Humidity</b>	5 - 95% RH (non-condensing) 80% max for CSA
<b>Enclosure Rating</b>	NEMA-4X enclosure, waterproof, chemical, and weather resistant
<b>Order Number</b>	72-2102RK-HR

Authorized Distributor:

Made in the USA