



SIZE MATTERS

In The
**BREATHING
ZONE**



GX-3R

Worlds Smallest and Lightest 4 Gas Monitor

- **Smallest & lightest 4 gas monitor**
— 2.2" W x 2.55" H x 1.02" D, 3.52 ounces
- **Simultaneous detection of 4 gases**
— LEL, O₂, H₂S & CO
— H₂ Compensated CO sensor available
- **Simple 2-button operation**
- **Non-Compliance Indicator**
- **Alarms: audible, visual, & vibration**
- **3 user adjustable alarm levels**
- **Impact resistant - 23' drop test**
- **Water and dust resistant design, IP66/68**
- **Large LCD Auto-backlit display**
- **25 hours of operation (Lithium-ion battery)**
- **Field replaceable sensors & filters**
- **Stealth mode for law enforcement**
- **3 Year warranty**



Gas Detected	(CO) <i>H2 Compensated</i>	Carbon Monoxide(CO)	Hydrogen Sulfide(H2S)	H2S Only	Combustible Gases (Methane as standard)	Oxygen (O2)
Sensor Slot	Dual Sensor					
Detection Principle	EC	Dual EC		EC	Catalytic combustion	Electrochemical cell
Detection Range (Increments)	0 ~ 2,000 ppm (1 ppm)		0 ~ 200.0 ppm (0.1 ppm)		0 ~ 100% LEL (1% LEL)	0 ~ 40.0% Vol. (0.1%)
Accuracy Statement	± 5% of reading or ± 2 ppm CO	± 5% of reading or ± 5 ppm CO (whichever is greater)	± 5% of reading or ± 2 ppm H2S (whichever is greater)		± 5% of reading or ± 2% LEL (whichever is greater)	± 0.5% O2
Sampling Method	Diffusion sampling standard (hand aspirator or clip-on motorized pump optional)					
Display	Digital LCD displays with 7 segment plus 14 segment plus icon					
Preset Alarms (User Adjustable) Overscale alarm (Non-adjustable)	1st alarm: 25.0 ppm 2nd alarm: 50.0 ppm 3rd alarm: 1200.0 ppm TWA alarm: 25.0 ppm STEL alarm: 200.0 ppm Over alarm: 2000.0 ppm		1st alarm: 5.0 ppm 2nd alarm: 30.0 ppm 3rd alarm: 100.0 ppm TWA alarm: 1.0 ppm STEL alarm: 5.0 ppm Over alarm: 200.0 ppm		1st alarm: 10% LEL 2nd alarm: 25% LEL 3rd alarm: 50% LEL Over alarm: 100% LEL	Low 1 alarm: 19.5% Low 2 alarm: 18.0% High alarm: 23.5% Over alarm: 40.0%
Types of Alarms	Gas Alarm: Trouble alarm:	3 Increasing alarms, STEL, TWA, overscale alarm. O2 decreasing/increasing. Sensor disconnection, low battery, circuit error, calibration range error				
Display of Alarm	Gas Alarm: Trouble alarm:	Flashing LEDs, continuous buzzer (100 db @ 30 cm), flashing gas value, vibration Flashing LEDs, intermittent buzzer (95 db @ 30 cm), display of error message				
Operating Temp. & Humidity	-20°C ~ +50°C [-4°F ~ +122°F], 10 to 90% RH, non-condensing (continuous environment) -40°C ~ +60°C [-40°F ~ +140°F], 0 to 95% RH, non-condensing (temporary environment, 15 minutes)					
Response Time	Within 30 seconds (T90)					
Power Source	Lithium-ion battery, Approx. 25 hours after a 3 hour full charge					
Approvals	ATEX, CSA					
Dimension & Weight	2.2" W x 2.55" H x 1.02" D (Approx. 58 W x 65 H x 26 D mm), 3.52 ounces (approx. 100 g) without rubber boot 2.4" W x 2.63" H x 1.06" D (Approx. 61 W x 67 H x 27 D mm), 3.70 ounces (approx. 105 g) with rubber boot					
Case Material	Explosion proof, dust and water resistant to IP-66/68 (2m,1h) approval. Drop height 23 ft					
Controls	Two buttons: POWER / MODE, AIR					
Datalogging	Logs user ID, station ID, Calibration & Bump Test history, Alarm Events & Alarm Interval Trends					
Standard Accessories	Alligator clip, protective rubber boot, charger, and calibration adapter					
Optional Accessories	SDM-3R calibration station RP-3R Clip-on sampling pump with 4" rubber nipple, 10' hose and probe (up to 40' hose available) Padded carrying case for GX-3R and accessories USB to IrDA downloading cable for datalogger					
Warranty	Three years material and workmanship					



Calibration Station
SDM-3R



Clip-On Sampling Pump
RP-3R



Confined Space Plus
GX-3R Pro



Authorized Distributor

GRAIN STORAGE, TRANSPORT, AND HANDLERS



GX-3R Pro

PH3 & Confined Space in One

- Simultaneous detection of 5 gases
 - Confined Space Gases: LEL, O₂, H₂S, CO
 - Toxic/IR options: HCN, NH₃, NO₂, **PH₃**, SO₂, and CO₂
- Smallest & lightest 5 gas monitor
- Water and dust resistant design, IP66/68
- Intrinsically safe, ATEX, CSA
- Bluetooth with iOS or Android App included
- Concussion-proof: passes 20' drop test
- Available Accessories
 - Attachable Sample pump
 - Calibration Station
- 3 Year Warranty



RP-3R



SC-04

Single Gas Personal PH3

- Available gases:
 - HCN, NH₃, NO₂, **PH₃**, or SO₂
- Operates 3,000 hours on alkaline
- Low battery alarm
- Impact, dust, and water resistant (IP-67)
- Intrinsically safe, ATEX, CSA
- 3 Year warranty



OX-03

Single Gas Personal O₂

- Monitor O₂ from 0 - 40% vol. with 3 alarm levels
- Operates 3,000 hours on alkaline
- Low battery alarm
- Pocket size 2.1" W x 2.6" H x 0.9" D
- Light weight 2.8 ounces
- Impact, dust, and water resistant (IP-67)
- Replaceable rubber boot
- Intrinsically safe, ATEX, CSA

Compact

Reliable

Durable



MATHESON

ask. . .The Gas Professionals™



Oxygen Monitoring



Controller

Beacon Series

1, 2, and 4 Channel Wall Mounts



- Simultaneously monitor up to 4 channels
- OLED display of all 4 channels
- Accepts any 4-20 mA transmitter, 2 or 3 wire
- Accepts oxygen sensors directly wired (no 4-20 transmitter needed)
- Up to 3 programmable alarm levels per channel
- Up to 3 configurable alarm relays per channel
- 4-20 mA analog & Modbus digital output standard
- Audible alarm with silence feature and reset switch
- Built in trouble alarm with relay
- Weather proof NEMA 4X enclosure
- RFI / EMI Resistant
- Weather and corrosion resistant NEMA 4X enclosure
- Optional strobe & battery backup available

Enclosure	NEMA 4X Fiberglass / polyester with lexan window for indoor and outdoor locations.
Power	115 VAC & 220 VAC, or 24 VDC nominal, battery backup option available
Control Buttons	<ul style="list-style-type: none">• UP/YES• DOWN/NO• ESCAPE• ENTER• External reset switch• On/Off toggle switch
Direct Connect Sensors	Accepts direct wired sensors for 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
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	Four line OLED 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) <ul style="list-style-type: none">• 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.

O2 Detector Heads

M2A

Explosion Proof Sensor / Transmitter



- Operates with or without controller
- Digital readout with OLED display
- 2 Fully programmable alarm relays and one trouble relay
- Explosion proof
- Non intrusive calibration via magnetic wand

Part#	65-2643RK-05
Sensor Type	Galvanic cell
Measuring Ranges	0 - 25.0% Vol.
Alarm Settings	Two fully programmable alarm set points, increasing / decreasing, latching / self-resetting, on delays, off delays, normally energized or de-energized
Alarm Indication	Visual LEDs. Alarm 1, Amber; Alarm 2, Red; Fail, Red
Relays	Alarm 1, alarm 2, and fail (5 amp form 'C' contacts)
Dimensions	Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm)

Direct Connect

Sensor



- Low cost solution
- Remote mount sensor up to 500'
- Explosion proof
- Patented water repellent sensor coating

Part#	65-2515RK
Sensor Type	Galvanic cell
Measuring Range	0-25% Vol.
Location	Operating Environment indoor or outdoor. Explosion proof for Class I, Groups B, C, and D atmospheres.
Temperature	-4°F to 113°F -20°C to 45°C
Housing J-Box	Cast aluminum, explosion-proof, optional stainless steel J-box available
Controllers	Compatible with the following controllers: Beacon 110, Beacon 200, and Beacon 410

OX-600

Indoor Stand Alone / Transmitter



- Operates with or without controller
- Unique tri color alarm display
- Remote mount sensor available
- Pressure compensation eliminates false alarms caused by pressure changes

Part#	72-1004 (AA batteries) 72-1005 (24V) 72-1006 (115V)
Sensor Type	Galvanic cell
Sampling Method	Diffusion or remote sampling method
Measuring Range	0-25.0 %Vol. (0.1 %Vol. digit)
Alarms	Two preset alarms
Display	LCD digital display (3 digits, 3 color, green, orange, red backlight)
Power Supply	AA Alkaline Batteries, 24VDC, 115 VAC
Dimensions	Body: approx. 3.14"(W) x 4.7"(H) x 1.4"(D)

Ordering Information

When ordering a system, please specify the following components:

- 1) **Controller** — Select the controller based on the number of detector heads or sensors needed
- 2) **Detector Assemblies** (up to 4) — Choose the detector head or sensors to connect with the controller
- 3) **Accessories** — Choose what accessories are needed
is ordered 49-8104RK 12 AH battery assembly



Controller Selection

Part#	Description
72-2110RK-02	Beacon 110, single channel controller with small red strobe light (no sensor)
72-2102-08	Beacon 200, two channel controller, 115/220 VAC, with small red strobe light (uses common alarm 1 relay contact for strobe) (no sensors)
72-2104A-13R	Beacon 410A, four channel controller with large strobe light (no sensor)

Detector Assembly Selection



M2A



Direct Connect



OX-600



Remote Sensor Available

Part#	Description
M2A	
65-2643RK-05	M2A, Oxygen (O2) 0-25%, sensor / transmitter with j-box, cCSA _{US} version
Direct Connect	
65-2515RK	Sensor, Oxygen (O2), capillary type, explosion proof with conduit mounting and j-box (no transmitter), CSA version
OX-600	
72-1004	OX-600 oxygen monitor, 0-25%, battery operated (2 AA batteries)
72-1005	OX-600 oxygen monitor, 0-25%, 24 VDC operation (Select this version if used with an RKI controller)
72-1006	OX-600 oxygen monitor, 0-25%, 115 VAC operation

Accessories



Battery Backup



Auxiliary Flashing Alarm Light



Horn / Strobe Combo



Emergency Stop

Part#	Description
49-8104RK	Standby battery assembly, 24 VDC, 12 AMP hours, for Beacon 110, Beacon 200, Beacon 410, & Beacon 800
51-0055RK	Rotating alarm light, red, 115 VAC, Federal Signal 225-120V-R
51-0131AMB	Horn with strobe, outdoor, panel mounting, 120 VAC, 4 wire, amber lens, Edwards 868STRA-N5
81-1117RK	Cal cup, standard, fixed systems, for conduit mounting, LEL/O2/H2S/CO, (NPT type)
81-1153	Cal cup for OX-600
81-F302RK-LV	Cal kit, fixed for M2A/S2/Direct connect, 34L cyl 100% N2, reg with gauge & knob, cal cup, case & tubing
81-OX600-LV	Cal Kit, fixed for OX-600, 100% N2, reg with gauge & knob, cal cup, case & tubing
82-5220	ESTOP with relay and stack light, 24 VDC power needed



Oxygen *Monitoring*



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- Built in trouble alarm with relay
- Weather proof NEMA 4X enclosure
- RFI / EMI Resistant
- Weather and corrosion resistant NEMA 4X enclosure
- Optional strobe & battery backup available

Enclosure	NEMA 4X Fiberglass / polyester with lexan window for indoor and outdoor locations.
Power	115 VAC & 220 VAC, or 24 VDC nominal, battery backup option available
Control Buttons	<ul style="list-style-type: none">• UP/YES• DOWN/NO• ESCAPE• ENTER• External reset switch• On/Off toggle switch
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M2A



Direct Connect



OX-600



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Fixed & Portable Gas Detection Solutions



**Confined Space
Bar Hole Monitor**
Leak Check
3 Operating Modes



**6 Gas Sample Draw with
PID & Super Toxics**
2 Smart slots that auto recognize
PID, IR, and super toxic sensors



Multi-Sensor Transmitter
3 Sensors,
1 explosion proof housing



**Smallest 4 Gas
Portable Monitor**
Simultaneously detects
LEL, O₂, H₂S, and CO



CORRO-TECH®
G-T INDUSTRIAL PRODUCTS

DIVISIONS OF CORROSION TECHNOLOGIES, INC.

25 Progress Parkway
Union, MO 63064

Phone: (636) 583-9393
www.corro-tech.com