

Limited Availability
Used and in Excellent Condition

Open Web Page

https://www.artisantg.com/90419-1

All trademarks, brandnames, and brands appearing herein are the property of their respective owners.

- Critical and expedited services
- In stock / Ready-to-ship

- · We buy your excess, underutilized, and idle equipment
- · Full-service, independent repair center



Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group

(217) 352-9330 | sales@artisantg.com | artisantg.com

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

AVAILABLE ACCESSORIES



AC power supply



Remote horns & lights



Air aspirator adaptors / panels



Calibration adaptors

Flow through adaptors





Dataloggers



Calibration kits

Direct Interface with Beacon 110 / 200 / 410 / 800 Controllers

M2A Wiring Matrix							
Number Maximum Distance to Controller							
	of Wires to Controller	Wires to 18 AWG 16 AWG 14					
M2A Transmitter	3	2500 ft.	5,000 ft.	8,000 ft.			



Made in the USA

Authorized Distributor:



Gas Detection For Life

Artisan Technology Group - Quality Instrumentation

M2A STAND ALONE TRANSMITTER



The RKI M2A™ is a state-of-the-art transmitter that can operate as an independent, stand-alone monitor or as part of an integrated system. The M2A connects with an analog or digital signal to virtually any controller, PLC, or DCS, Setup procedures are simplified with user friendly push buttons and OLED menus. It utilizes a magnetic wand technique for performing non-intrusive calibration. The M2A provides an automatic zero drift correction feature, which results in more stable readings and reduces the need for adjustments due to sensor aging.

The housing of the M2A does not need to be opened for zeroing or calibration, making it unnecessary to declassify the area for routine maintenance. It is designed so that a complete field calibration can be performed by one person. Sensor construction is rated Class I, Div. 1 Groups B, C, D for flammables, CO, H2S, O2, and CO2, and Class I, Div. 2 for all other toxics.

The transmitter provides a 4-20 mA output in addition to a Modbus digital output. It also has two levels of alarms with relays, plus a fail alarm with relay. A digital display of the gas concentration, as well as alarm and status lights, can be viewed through the front window.

The toxic sensors are electrochemical type plug-in sensors, which provide high specificity, fast response, and long life. The plug-in design allows guick replacement in the field with no tools required. Toxic sensors are designed for use in Class I, Div. 2 hazardous locations. Sensors available for NH3, SO2, PH3, AsH3, and HCN.

The M2A represents the latest leading edge technology in sensor / transmitters today.

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

Explosion Proof

	LEL General Purpose	LEL H2 Specific	O2 Oxygen	H2S Hydrogen Sulfide	CO Carbon Monoxide	CH4 Methane	HC Hydrocarbons	CO2 Carbon Dioxide
	65-2640RK	65-2641RK	- CAYGOII	Trydrogon cumac	Carbon Monoxido		Tiyarodarbono	65-2660RK-02
Part#	65-2640RK-05	65-2641RK-05	65-2643RK-05	65-2645RK-05	65-2646RK-05	65-2649RK-CH4 65-2658RK-CH4	65-2649RK-HC	65-2660RK-03 65-2660RK-05 65-2660RK-10
Sensors	Cata	alytic	Galvanic cell	Electroo	hemical		Infrared	
Measuring Ranges	0 - 100	% LEL	0 - 25.0% Vol.	0 - 100 ppm	0 - 300 ppm	0 - 100% LEL 0 - 100% Vol.	0 - 100% LEL	-02 0 - 5000 ppm -03 0 - 5% Vol. -05 0 - 50% Vol. -10 0 - 100% Vol.
Resolution	1%	LEL	0.1% Vol.	1 p	pm	1% LEL .	/ 1% Vol.	20 ppm / 0.1% Vol. / 1% Vol.
Lower Detectable Limit (LDL)	2% of fu	ıll scale	0.1% Vol.			2% of full scale		
Max Current Draw (24VDC)	160 mA with alar active and all re			125 mA with	n alarm 1 and alarm 2	2 active and all relay	ys energized	
Response Time (T-90)			35 Seconds or le	SS			30 Seconds or les	SS
Life Expectancy	2 to 3 years with normal service	3 to 5 years with normal service	2 to	3 years with normal	service	5 year	rs plus with normal	service
Accuracy (which ever is greater)	± 5% of reading	g or ± 2 % LEL	± 0.5% Vol. O2	± 5% of reading or ± 2 ppm H2S	± 5% of reading or ± 5 ppm CO	± 5% of	reading or ± 2 % o	f full scale
Weather Resistant		Patented water repellent sensor coating						
Alarms								
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	5 amp form 'C' contacts for alarm 1, alarm 2, and fail							
Physical								
Dimensions	Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm)							
Display	Alphanumeric OLED display. 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup							
Enclosure	Explosion proof for Class I, Div 1, Groups B, C, D.							
Enclosure Rating	NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating							
Controls	Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup							
Operating Env	Operating Environment							
Operating Temperature								
Relative Humidity	5 - 95% RH non-condensing							
Location	Indoor or outdoor. Explosion proof for Class I, Div. 1, Groups B, C, D.							
Operating Voltage	10 VDC - 30 VDC							
Outputs								
Analog	Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale							
Digital	Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud							
	65-2640RK UL	65-2641RK UL						
Approvals	65-2640RK-05 C CSA US	65-2641RK-05 C CSA US	C CSA US					
Controllers	Compatible with all RKI Beacon controllers, as well as most DCS / PLC systems: Beacon 110, Beacon 200, Beacon 410, Beacon 800							
Warranty				One year materia	al and workmanship			

Non Explosion Proof

Lower Detectable Limit (LDL) 0.1% Vol. 2% of full scale		O2 Oxygen							
Measuring Ranges 0-25% Vol. 0-100 ppm 0-300 ppm See Chart Below -03 0 - 500 ppm -03 0 - 50% Vol. -10 0 - 100% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. / 1% Vol. -10 0 - 100% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. / 1% Vol. -10 0 - 100% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol.	Part#		65-2662RK	65-2662RK 65-2663RK See Chart Below		65-2661RK-03 65-2661RK-05			
Measuring Ranges	Sensors	Galvanic cell		Electrochemical		Infrared			
Lower Detectable Limit (LDL)	Measuring Ranges	0-25% Vol.	0-100 ppm 0-300 ppm See Chart Below			-03 0 - 5% Vol. -05 0 - 50% Vol.			
Response Time (T-90) 35 Seconds or less 60 Seconds or less 30 Seconds or less	Resolution	0.1% Vol.	1 p	ppm	See Chart Below	20 ppm / 0.1% Vol. / 1% Vol.			
Max Current Draw (24VDC) Life Expectancy Life Expectancy Accuracy (which ever is greater) ± 0.5% Vol. 02 ± 5% of reading or ± 2 ppm H2S Life Expectancy x 2 to 3 years with normal service ± 5% of reading or ± 5% of reading or ± 5% of full scale ± 2% of full scale ± 2% of full scale ± 2% of full scale £ 5% of full scale £ 5% of full scale ± 2% of full scale £ 5% of full scale ± 2% of full scale £ 5% of full scale ± 2% of full scale £ 5% of full scale £ 2% of full scale £ 2% of full scale £ 5% of full scale £ 2% of scale £ 2% of scale £ 2% of full scale £ 2% of scale £ 2% of scale £ 2% of scale £ 2%	Lower Detectable Limit (LDL)	0.1% Vol.		2%	of full scale				
Life Expectancy Accuracy (which ever is greater) Accuracy (which ever is greater) Alarms Alarm Settings Alarm Settings Alarm Indication Relays Dimensions Height: 8.5° (215 mm), Width: 5.2° (132 mm), Depth: 4.5° (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout, plus user-finely calibration and setup Sensor Rating Non explosion proof construction, designed for Caliss I, Div. 2, Groups B, C, D (no certification) NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Sensor Aluminum / Plastic (non explosion proof) Operating Temperature -4°F to 113°F -40°F to 104°F -40°C to 40°C -10°C to 40°C -10°C to 40°C -10°C to 40°C -10°C to 40°C -40°C to 50°C Operating Voltage Outputs Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, full px cent gas and served to 19°C P, PC custers:	Response Time (T-90)		35 Seconds or less		60 Seconds or less	30 Seconds or less			
(which ever is greater) Accuracy (which ever is greater) Alarms Alarm Settings Alarm Settings Alarm Indication Relays Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Operating Temperature Operating Temperature APF to 113°F -20°C to 45°C -40°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Operating Voltage Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 -500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Max Current Draw (24VDC)		125 mA with al	arm 1 and alarm 2 active an	d all relays energized				
(which ever is greater) ± 0.5% Vol. 02 ± 2 ppm H2S ± 5 ppm CO ± 5% of full scale ± 2% of full scale Alarms Alarms 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 5 Amp form 'C' contacts for alarm 1, alarm 2, and fail Physical Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display. 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -40°F to 104°F 23°F to 104°F 14°F to 104°F -40°F to 122°F -40°C to 45°C -40°C 105°C 104°C -10°C to 40°C -40°C 105°C -40°C 105°C 000°C Relative Humidity 5 -95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC -30 VDC Outputs Modbus RTU output standard, fully configurable, e-wire RS-485, 1200 to 19.2k baud Modbus RTU output standard, fully configurable, e-wire RS-485, 1200 to 19.2k baud	Life Expectancy		2 to 3 years wit	th normal service		5 years plus			
Alarm Settings Two fully programmable alarm set points, increasing / decreasing, latching / self-resetting, on delays, off delays, normally energized or de-energized. Alarm Indication Relays 5 Amp form 'C' contacts for alarm 1, alarm 2. Red; Fail-Red 5 Amp form 'C' contacts for alarm 1, alarm 2, and fail Physical Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout; plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and spoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature 4°F to 113°F -40°F to 104°F 23°F to 104°F 14°F to 104°F -20°C to 45°C -40°C to 40°C -5°C to 40°C -10°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Indoor or outdoor Operating Voltage Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	_	± 0.5% Vol. O2	_			1			
Alarm Settings Self-resetting, on delays, off delays, normally energized or de-energized. Alarm Indication Visual LEDs. Alarm 1=Amber; Alarm 2=Red; Fall=Red Relays 5 Amp form 'C' contacts for alarm 1, alarm 2, and fail Physical Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -20°C to 45°C -40°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity Sensor Location Location Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Alarms								
Physical Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display. 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -40°F to 104°F 23°F to 104°F 14°F to 104°F -40°C to 40°C -5°C to 40°C -10°C to 40°C -	Alarm Settings								
Physical Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -40°F to 104°F 23°F to 104°F 14°F to 104°F -40°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Alarm Indication	Visual LEDs. Alarm 1=Amber; Alarm 2=Red; Fail=Red							
Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -20°C to 45°C -40°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Operating Voltage Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Relays	5 Amp form 'C' contacts for alarm 1, alarm 2, and fail							
Alphanumeric OLED display. 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -20°C to 45°C -40°F to 104°F -20°C to 40°C -5°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Physical								
Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification)	Dimensions	Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm)							
Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F	Display								
Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -40°F to 104°F 23°F to 104°F 14°F to 104°F -40°F to 122°F -40°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Sensor Rating	No	Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification)						
Internal push-button controls also available for calibration and setup Sensor	Housing J-Box	NEI	NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating						
Operating Environment Operating Temperature -4°F to 113°F -20°C to 45°C -40°F to 104°F -40°C to 40°C Relative Humidity 5 - 95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Controls								
Operating Temperature -4°F to 113°F -20°C to 45°C -40°F to 104°F -20°C to 40°C -5°C to 40°C -10°C to 40°C -10°C to 40°C -40°F to 122°F -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Sensor	Aluminum / Plastic (non explosion proof)							
Operating Temperature -20°C to 45°C -40°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Operating Environment								
Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Operating Temperature								
Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud Compatible with all RKI Bascon controllers, as well as most DCS / PLC systems:	Relative Humidity	5 - 95% RH non-condensing							
Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud Compatible with all RKI Beacon controllers, as well as most DCS / PLC systems:	Location	Indoor or outdoor							
Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud Compatible with all RKI Basen controllers, as well as most DCS / PLC systems:	Operating Voltage	10 VDC - 30 VDC							
Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud Compatible with all RKI Reacon controllers, as well as most DCS / PLC systems:	Outputs								
Compatible with all BKI Reacon controllers, as well as most DCS / PLC systems.	Analog	Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale							
Compatible with all RKI Beacon controllers, as well as most DCS / PLC systems:	Digital	Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud							
Beacon 110, Beacon 200, Beacon 410, Beacon 800	Controllers		,						
Warranty One year materials and workmanship	Warranty								

^{*} Partial pressure sensor for helium applications. Consult factory for details.



M2A Toxic Transmitter Sensor Ordering Information								
Part Number With J-Box	Gas	Range	Resolution					
65-2648RK-AsH3	Arsine (AsH3)	0 - 1.5 ppm	0.01 ppm					
65-2648RK-NH3	Ammonia (NH3)	0 - 75.0 ppm	0.1 ppm					
65-2648RK-PH3	Phosphine (PH3)	0 - 1.00 ppm	0.01 ppm					
65-2648RK-HCN	Hydrogen Cyanide (HCN)	0 - 15.0 ppm	0.1 ppm					
65-2648RK-SO2	Sulfur Dioxide (SO2)	0 - 6.00 ppm	0.01 ppm					

Explosion Proof

	LEL General Purpose							CO2 Carbon Dioxide
Part#	65-2640RK	65-2641RK	65-2643RK-05	65-2645RK-05	65-2646RK-05	65-2649RK-CH4	65-2649RK-HC	65-2660RK-02 65-2660RK-03
raitir	65-2640RK-05	65-2641RK-05	03-204011111-03	05-2045/1/1/-05		65-2658RK-CH4	03-20491110-110	65-2660RK-05 65-2660RK-10
Sensors	Cata	alytic	Galvanic cell	Electroo	chemical		Infrared	
Measuring Ranges	0 - 100	% LEL	0 - 25.0% Vol.	0 - 100 ppm	0 - 300 ppm	0 - 100% LEL 0 - 100% Vol.	0 - 100% LEL	-02 0 - 5000 ppm -03 0 - 5% Vol. -05 0 - 50% Vol. -10 0 - 100% Vol.
Resolution	1%	LEL	0.1% Vol.	1 p	ppm	1% LEL .	/ 1% Vol.	20 ppm / 0.1% Vol. / 1% Vol.
Lower Detectable Limit (LDL)	2% of fi	ull scale	0.1% Vol.			2% of full scale		
Max Current Draw (24VDC)	160 mA with alar active and all re	rm 1 and alarm 2 elays energized		125 mA with	h alarm 1 and alarm	2 active and all relay	ys energized	
Response Time (T-90)			35 Seconds or le	SS			30 Seconds or les	SS
Life Expectancy	2 to 3 years with normal service	3 to 5 years with normal service	2 to	3 years with normal	service	5 year	rs plus with normal	service
Accuracy (which ever is greater)	± 5% of readin	g or ± 2 % LEL	± 0.5% Vol. O2	± 5% of reading or ± 2 ppm H2S	± 5% of reading or ± 5 ppm CO	± 5% of	reading or ± 2 % o	f full scale
Weather Resistant				Patented water rep	pellent sensor coating	J		
Alarms								
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	5 amp form 'C' contacts for alarm 1, alarm 2, and fail							
Physical	Hoight: 9.5" (215 mm) Width: 5.2" (122 mm) Donth: 4.5" (114 mm)							
Dimensions	Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display. 8 characters per line;							
Display	2 lines for gas concentration readout, plus user-friendly calibration and setup							
Enclosure	Explosion proof for Class I, Div 1, Groups B, C, D.							
Enclosure Rating	NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Magnet used for calibration functions. Calibrates without opening the housing.							
Controls	Internal push-button controls also available for calibration and setup							
Operating Env	Invironment							
Operating Temperature								
Relative Humidity	5 - 95% RH non-condensing							
Location	Indoor or outdoor. Explosion proof for Class I, Div. 1, Groups B, C, D.							
Operating Voltage	10 VDC - 30 VDC							
Outputs	outs							
Analog	Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale						cale	
Digital	Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud							
Approvals	65-2640RK UL 65-2640RK-05 C CSA US	65-2641RK UL 65-2641RK-05 C CSA US C UL US C UL US						
Controllers	Compatible with all RKI Beacon controllers, as well as most DCS / PLC systems: Beacon 110, Beacon 200, Beacon 410, Beacon 800							
Warranty	One year material and workmanship							

Non Explosion Proof

Lower Detectable Limit (LDL) 0.1% Vol. 2% of full scale		O2 Oxygen							
Measuring Ranges 0-25% Vol. 0-100 ppm 0-300 ppm See Chart Below -03 0 - 500 ppm -03 0 - 50% Vol. -10 0 - 100% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. / 1% Vol. -10 0 - 100% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. / 1% Vol. -10 0 - 100% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol. / 1% Vol. -10 0 - 500 ppm / 0.1% Vol. / 1% Vol.	Part#		65-2662RK	65-2662RK 65-2663RK See Chart Below		65-2661RK-03 65-2661RK-05			
Measuring Ranges	Sensors	Galvanic cell		Electrochemical		Infrared			
Lower Detectable Limit (LDL)	Measuring Ranges	0-25% Vol.	0-100 ppm 0-300 ppm See Chart Below			-03 0 - 5% Vol. -05 0 - 50% Vol.			
Response Time (T-90) 35 Seconds or less 60 Seconds or less 30 Seconds or less	Resolution	0.1% Vol.	1 p	ppm	See Chart Below	20 ppm / 0.1% Vol. / 1% Vol.			
Max Current Draw (24VDC) Life Expectancy Life Expectancy Accuracy (which ever is greater) ± 0.5% Vol. 02 ± 5% of reading or ± 2 ppm H2S Life Expectancy x 2 to 3 years with normal service ± 5% of reading or ± 5% of reading or ± 5% of full scale ± 2% of full scale ± 2% of full scale ± 2% of full scale £ 5% of full scale £ 5% of full scale ± 2% of full scale £ 5% of full scale ± 2% of full scale £ 5% of full scale ± 2% of full scale £ 5% of full scale £ 2% of full scale £ 2% of full scale £ 5% of full scale £ 2% of scale £ 2% of scale £ 2% of full scale £ 2% of scale £ 2% of scale £ 2% of scale £ 2%	Lower Detectable Limit (LDL)	0.1% Vol.		2%	of full scale				
Life Expectancy Accuracy (which ever is greater) Accuracy (which ever is greater) Alarms Alarm Settings Alarm Settings Alarm Indication Relays Dimensions Height: 8.5° (215 mm), Width: 5.2° (132 mm), Depth: 4.5° (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout, plus user-finely calibration and setup Sensor Rating Non explosion proof construction, designed for Caliss I, Div. 2, Groups B, C, D (no certification) NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Sensor Aluminum / Plastic (non explosion proof) Operating Temperature -4°F to 113°F -40°F to 104°F -40°C to 40°C -10°C to 40°C -10°C to 40°C -10°C to 40°C -10°C to 40°C -40°C to 50°C Operating Voltage Outputs Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, full px cent gas and served to 19°C P, PC custers:	Response Time (T-90)		35 Seconds or less		60 Seconds or less	30 Seconds or less			
(which ever is greater) Accuracy (which ever is greater) Alarms Alarm Settings Alarm Settings Alarm Indication Relays Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Operating Temperature Operating Temperature APF to 113°F -20°C to 45°C -40°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Operating Voltage Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 -500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Max Current Draw (24VDC)		125 mA with al	arm 1 and alarm 2 active an	d all relays energized				
(which ever is greater) ± 0.5% Vol. 02 ± 2 ppm H2S ± 5 ppm CO ± 5% of full scale ± 2% of full scale Alarms Alarms 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 5 Amp form 'C' contacts for alarm 1, alarm 2, and fail Physical Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display. 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -40°F to 104°F 23°F to 104°F 14°F to 104°F -40°F to 122°F -40°C to 45°C -40°C 105°C 104°C -10°C to 40°C -40°C 105°C -40°C 105°C 000°C Relative Humidity 5 -95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC -30 VDC Outputs Modbus RTU output standard, fully configurable, e-wire RS-485, 1200 to 19.2k baud Modbus RTU output standard, fully configurable, e-wire RS-485, 1200 to 19.2k baud	Life Expectancy		2 to 3 years wit	th normal service		5 years plus			
Alarm Settings Two fully programmable alarm set points, increasing / decreasing, latching / self-resetting, on delays, off delays, normally energized or de-energized. Alarm Indication Relays 5 Amp form 'C' contacts for alarm 1, alarm 2. Red; Fail-Red 5 Amp form 'C' contacts for alarm 1, alarm 2, and fail Physical Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout; plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and spoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature 4°F to 113°F -40°F to 104°F 23°F to 104°F 14°F to 104°F -20°C to 45°C -40°C to 40°C -5°C to 40°C -10°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Indoor or outdoor Operating Voltage Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	_	± 0.5% Vol. O2	_			1			
Alarm Settings Self-resetting, on delays, off delays, normally energized or de-energized. Alarm Indication Visual LEDs. Alarm 1=Amber; Alarm 2=Red; Fall=Red Relays 5 Amp form 'C' contacts for alarm 1, alarm 2, and fail Physical Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -20°C to 45°C -40°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity Sensor Location Location Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Alarms								
Physical Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display. 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -40°F to 104°F 23°F to 104°F 14°F to 104°F -40°C to 40°C -5°C to 40°C -10°C to 40°C -	Alarm Settings								
Physical Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -40°F to 104°F 23°F to 104°F 14°F to 104°F -40°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Alarm Indication	Visual LEDs. Alarm 1=Amber; Alarm 2=Red; Fail=Red							
Dimensions Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm) Alphanumeric OLED display, 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -20°C to 45°C -40°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Operating Voltage Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Relays	5 Amp form 'C' contacts for alarm 1, alarm 2, and fail							
Alphanumeric OLED display. 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification) Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -20°C to 45°C -40°F to 104°F -20°C to 40°C -5°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Physical								
Sensor Rating Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification)	Dimensions	Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm)							
Housing J-Box NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F	Display								
Controls Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup Sensor Aluminum / Plastic (non explosion proof) Operating Environment Operating Temperature -4°F to 113°F -40°F to 104°F 23°F to 104°F 14°F to 104°F -40°F to 122°F -40°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Sensor Rating	No	Non explosion proof construction, designed for Class I, Div. 2, Groups B, C, D (no certification)						
Internal push-button controls also available for calibration and setup Sensor	Housing J-Box	NEI	NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating						
Operating Environment Operating Temperature -4°F to 113°F -20°C to 45°C -40°F to 104°F -40°C to 40°C Relative Humidity 5 - 95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Controls								
Operating Temperature -4°F to 113°F -20°C to 45°C -40°F to 104°F -20°C to 40°C -5°C to 40°C -10°C to 40°C -10°C to 40°C -40°F to 122°F -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Sensor	Aluminum / Plastic (non explosion proof)							
Operating Temperature -20°C to 45°C -40°C to 40°C -5°C to 40°C -10°C to 40°C -40°C to 50°C Relative Humidity 5 - 95% RH non-condensing Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Operating Environment								
Location Indoor or outdoor Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud	Operating Temperature								
Operating Voltage 10 VDC - 30 VDC Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud Compatible with all RKI Bascon controllers, as well as most DCS / PLC systems:	Relative Humidity	5 - 95% RH non-condensing							
Outputs Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud Compatible with all RKI Beacon controllers, as well as most DCS / PLC systems:	Location	Indoor or outdoor							
Analog Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud Compatible with all RKI Basen controllers, as well as most DCS / PLC systems:	Operating Voltage	10 VDC - 30 VDC							
Digital Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud Compatible with all RKI Reacon controllers, as well as most DCS / PLC systems:	Outputs								
Compatible with all BKI Reacon controllers, as well as most DCS / PLC systems.	Analog	Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 - 500 ohms max (12VDC) corresponding to 0 - full scale							
Compatible with all RKI Beacon controllers, as well as most DCS / PLC systems:	Digital	Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud							
Beacon 110, Beacon 200, Beacon 410, Beacon 800	Controllers		,						
Warranty One year materials and workmanship	Warranty								

^{*} Partial pressure sensor for helium applications. Consult factory for details.



M2A Toxic Transmitter Sensor Ordering Information								
Part Number With J-Box	Gas	Range	Resolution					
65-2648RK-AsH3	Arsine (AsH3)	0 - 1.5 ppm	0.01 ppm					
65-2648RK-NH3	Ammonia (NH3)	0 - 75.0 ppm	0.1 ppm					
65-2648RK-PH3	Phosphine (PH3)	0 - 1.00 ppm	0.01 ppm					
65-2648RK-HCN	Hydrogen Cyanide (HCN)	0 - 15.0 ppm	0.1 ppm					
65-2648RK-SO2	Sulfur Dioxide (SO2)	0 - 6.00 ppm	0.01 ppm					

AVAILABLE ACCESSORIES



AC power supply



Remote horns & lights



Air aspirator adaptors / panels



Calibration adaptors

Flow through adaptors





Dataloggers



Calibration kits

Direct Interface with Beacon 110 / 200 / 410 / 800 Controllers

M2A Wiring Matrix								
	Number Maximum Distance to Controller							
	of Wires to Controller	s to 18 AWG 16 AWG 14 AW						
M2A Transmitter	3	2500 ft.	5,000 ft.	8,000 ft.				



Made in the USA

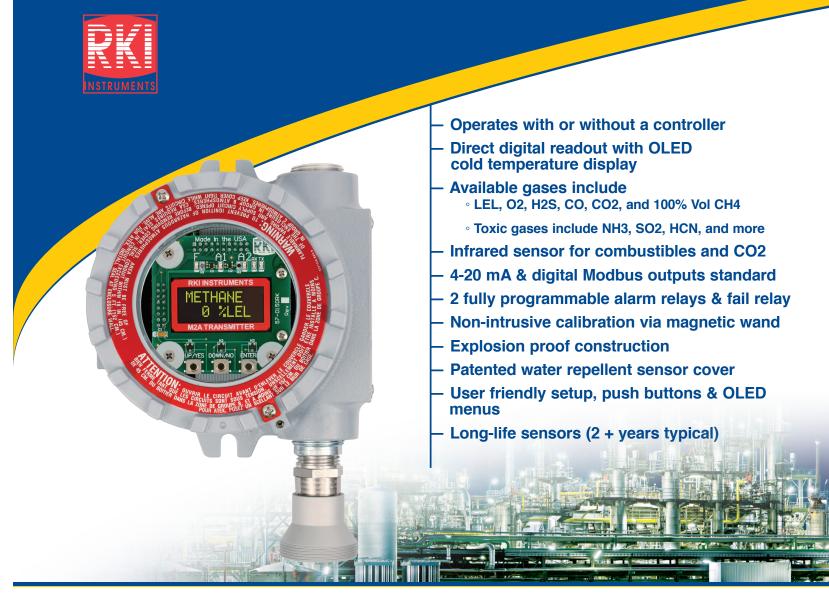
Authorized Distributor:



Gas Detection For Life

Artisan Technology Group - Quality Instrumentation

M2A STAND ALONE TRANSMITTER



The RKI M2A™ is a state-of-the-art transmitter that can operate as an independent, stand-alone monitor or as part of an integrated system. The M2A connects with an analog or digital signal to virtually any controller, PLC, or DCS, Setup procedures are simplified with user friendly push buttons and OLED menus. It utilizes a magnetic wand technique for performing non-intrusive calibration. The M2A provides an automatic zero drift correction feature, which results in more stable readings and reduces the need for adjustments due to sensor aging.

The housing of the M2A does not need to be opened for zeroing or calibration, making it unnecessary to declassify the area for routine maintenance. It is designed so that a complete field calibration can be performed by one person. Sensor construction is rated Class I, Div. 1 Groups B, C, D for flammables, CO, H2S, O2, and CO2, and Class I, Div. 2 for all other toxics.

The transmitter provides a 4-20 mA output in addition to a Modbus digital output. It also has two levels of alarms with relays, plus a fail alarm with relay. A digital display of the gas concentration, as well as alarm and status lights, can be viewed through the front window.

The toxic sensors are electrochemical type plug-in sensors, which provide high specificity, fast response, and long life. The plug-in design allows guick replacement in the field with no tools required. Toxic sensors are designed for use in Class I, Div. 2 hazardous locations. Sensors available for NH3, SO2, PH3, AsH3, and HCN.

The M2A represents the latest leading edge technology in sensor / transmitters today.

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

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at artisantg.com for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today? (217) 352-9330 | sales@artisantg.com | artisantg.com

