

MultiRAE Benzene (Model PGM-6228)

The MultiRAE Benzene monitor combines the ability to make quick benzene-specific assessment (“snapshot”) measurements with the advantages of a versatile multi-gas monitor that can support up to 20 intelligent interchangeable sensor options. Its optional wireless capability improves safety and productivity by providing real-time access to instrument readings and alarm status from any location, which delivers better situational awareness and faster incident response.

Monitor-Only Configuration Includes:

- MultiRAE Benzene monitor with sensors, battery and wireless options as specified, and protective rubber boot and filter(s) installed
- Continuous datalogging (6 months for 5 sensors @ 1-minute)
- Travel charger / PC communications adapter
- PC communication cable
- AC adapter
- Calibration adapter
- Alkaline battery adapter
- Toolkit with Hex tool and Phillips screwdriver
- Quick Start Guides
- CD with documentation
- ProRAE Studio II Instrument Configuration & Data Management Software
- Calibration and test certificate
- Warranty / registration card
- 10 charcoal VOC filters for CO sensor
- Built-in pump
- Belt clip installed
- 3 spare external filters
- PID sensor cap removal tool
- 1 Cartridge for Benzene specific measurement (6 measurements)
- Remote Sample Draw Kit (P/N: 008-3015-200)
 - 10" (26 cm) aluminum sample probe with replaceable filters,
 - 3 hydrophobic barrier filters,
 - 10' (3 m) self-coiling Teflon® tubing w/ Luer-style quick-connect fitting

Instrument ships in a Hard transport case with custom foam

Optional Calibration Kit Adds:

- 4-gas mix (34L; 50% LEL, 18% O₂, 10 ppm H₂S, 50 ppm CO) with regulator
- 5 ppm Benzene gas (34L) with regulator

Additional accessories, automatic calibration systems, gas kits, individual gases and regulators are listed under Multi-Gas Accessories and Multi-Gas Calibration sections of the Portables Pricing Guide

RAE Sep Tube Cartridges price can be found in the Tubes and Pumps section of this price guide



Listed below are some common configurations of the MultiRAE Benzene monitors. For others, please use the Assemble-to-Order (ATO) Configuration Guide below.

Standard Sensor Configurations - MultiRAE Benzene

	PID Sensor	Pumped	Wireless	Li-ion Rechargeable	Accessories Kit	Calibration Kit	PART NUMBER	LIST PRICE
Pumped / 9.8 eV PID / LEL / H₂S / CO / O₂ / Li-ion / Non-Wireless								
Unit with Accessories (no gas or regulator)	•	•		•	•		MZA3-A4C112E-021	
Unit with Accessories / Confined Space and Calibration Kit (4-gas + Benzene + regulators)	•	•		•	•	•	MZA3-A4C112E-022	,
Pumped / 9.8 eV PID / LEL / H₂S / CO / O₂ / Li-ion / Wireless								
Unit with Accessories (no gas or regulator)	•	•	•	•	•		MZA3-A4C112E-421	
Unit with Accessories / Confined Space and Calibration Kit (4-gas + Benzene + regulators)	•	•	•	•	•	•	MZA3-A4C112E-422	,

MultiRAE Benzene Monitor (Model PGM-6228)



R	Certification of Intrinsic Safety		
A	ATEX/ IECEx		
R	IECEX/ ANZEX		
3	MultiRAE Benzene - Pumped		
2	MultiRAE Benzene - Pumped, ATEX/IECEX Zone 0		
	AA	High-Power Sensor: PID	
	A4	PID, 9.8 eV	PID sensor (2,000 ppm; 0.1 ppm res.; 9.8 eV) +
	BB	High-Power Sensor (Options: Dummy / LEL / Electrochemical Sensors Incl. CO+H2S Combo)	
	00	Empty	Dummy sensor +
	LEL Catalytic Bead Sensor		
	C1	LEL	Combustible catalytic bead % LEL sensor +
	Electrochemical Sensors		
	01	H2S	Hydrogen Sulfide (H2S) sensor (up to 100 ppm reading) +
	02	CO	Carbon Monoxide (CO) sensor (up to 500 ppm reading) +
	03	SO2	Sulfur Dioxide (SO2) sensor +
	04	NO	Nitric Oxide (NO) sensor +
	05	NO2	Nitrogen Dioxide (NO2) sensor +
	06	Cl2	Chlorine (Cl2) sensor +
	07	HCN	Hydrogen Cyanide (HCN) sensor +
	08	NH3	Ammonia (NH3) sensor +
	09	PH3	Phosphine (PH3) sensor (up to 20 ppm reading) +
	0A	ClO2	Chlorine Dioxide (ClO2) sensor +
	0D	CO, HR	Carbon Monoxide (CO) extended-range sensor (up to 2,000 ppm reading) +
	0E	O2	Oxygen (O2) sensor +
	0F	CO comp. H2	Carbon Monoxide (CO) sensor (H2-compensated) +
	0H	CH3-SH	Methyl Mercaptan (CH3-SH) sensor +
	0J	EtO-A	Ethylene Oxide (EtO-A) sensor (0 - 100 ppm; 1 ppm res.) +
	0K	EtO-B	Ethylene Oxide (EtO-B) sensor (0 - 10 ppm, 0.1 ppm res.) +
	0Q	HCHO	Formaldehyde (HCHO) sensor +
	0R	CO+H2S	Carbon Monoxide+Hydrogen Sulfide (CO+H2S) combo +
	0S	O2	Liq. Oxygen (O2) sensor, 3-year warranty +
	C	Low-Power Sensor (Options: Dummy / Electrochemical Sensors Incl. CO+H2S Combo)	
	0	Empty	Dummy sensor +
	Electrochemical Sensors		
	1	H2S	Hydrogen Sulfide (H2S) sensor (up to 100 ppm reading) +
	2	CO	Carbon Monoxide (CO) sensor (up to 500 ppm reading) +
	3	SO2	Sulfur Dioxide (SO2) sensor +
	4	NO	Nitric Oxide (NO) sensor +
	5	NO2	Nitrogen Dioxide (NO2) sensor +
	6	Cl2	Chlorine (Cl2) sensor +
	7	HCN	Hydrogen Cyanide (HCN) sensor +
	8	NH3	Ammonia (NH3) sensor +
	9	PH3	Phosphine (PH3) sensor (up to 20 ppm reading) +
	A	ClO2	Chlorine Dioxide (ClO2) sensor +
	D	CO, HR	Carbon Monoxide (CO) extended-range sensor (up to 2,000 ppm reading) +
	E	O2	Oxygen (O2) sensor +
	F	CO comp. H2	Carbon Monoxide (CO) sensor (H2-compensated) +
	H	CH3-SH	Methyl Mercaptan (CH3-SH) sensor +
	J	EtO-A	Ethylene Oxide (EtO-A) sensor (0 - 100 ppm; 1 ppm res.) +
	K	EtO-B	Ethylene Oxide (EtO-B) sensor (0 - 10 ppm, 0.1 ppm res.) +
	Q	HCHO	Formaldehyde (HCHO) sensor +
	R	CO+H2S	Carbon Monoxide+Hydrogen Sulfide (CO+H2S) combo +
	S	O2	Liq. Oxygen (O2) sensor, 3-year warranty +

* Note: If the instrument is ordered with fewer than five sensors, a dummy sensor must be installed in the empty sensor slot(s)

* Note: ATEX/IECEX Zone 0 unit cannot be configured with NDIR sensors

* Note: ClO₂ and H₂S sensors cannot be installed in the same instrument
** Note: NO and NH₃ sensors cannot be installed in the same instrument

* Note: When ordering electrochemical sensors, please select the lower number first

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MZ B M-AA BB C DE-FGH

MultiRAE Benzene Configuration Guide

Select one option for Certification, Model, and one for each Feature Group (AA through H), to build a complete model number:

<u>MZ</u>	<u>R</u>	<u>M</u>	-	<u>AA</u>	<u>BB</u>	<u>C</u>	<u>D</u>	<u>E</u>	-	<u>F</u>	<u>G</u>	<u>H</u>
MultiRAE Benzene	Certification	Model		Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5		Wireless	Battery	Kits



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D Low-Power Sensor (Options: Dummy / Electrochemical Sensors)			
0	Empty	Dummy sensor	+
Electrochemical Sensors			
1	H2S	Hydrogen Sulfide (H2S) sensor (up to 100 ppm reading)	+
2	CO	Carbon Monoxide (CO) sensor (up to 500 ppm reading)	+
3	SO2	Sulfur Dioxide (SO2) sensor	+
4	NO	Nitric Oxide (NO) sensor	+
5	NO2	Nitrogen Dioxide (NO2) sensor	+
6	Cl2	Chlorine (Cl2) sensor	+
7	HCN	Hydrogen Cyanide (HCN) sensor	+
8	NH3	Ammonia (NH3) sensor	+
9	PH3	Phosphine (PH3) sensor (up to 20 ppm reading)	+
A	ClO2	Chlorine Dioxide (ClO2) sensor	+
D	CO, HR	Carbon Monoxide (CO) extended-range sensor (up to 2,000 ppm reading)	+
E	O2	Oxygen (O2) sensor	+
F	CO comp. H2	Carbon Monoxide (CO) sensor (H2-compensated)	+
H	CH3-SH	Methyl Mercaptan (CH3-SH) sensor	+
J	EtO-A	Ethylene Oxide (EtO-A) sensor (0 - 100 ppm; 1 ppm res.)	+
K	EtO-B	Ethylene Oxide (EtO-B) sensor (0 - 10 ppm, 0.1 ppm res.)	+
Q	HCHO	Formaldehyde (HCHO) sensor	+
S	O2	Liq. Oxygen (O2) sensor, 3-year warranty	+

* Note: ClO₂ and H₂S sensors cannot be installed in the same instrument

** Note: NO and NH₃ sensors cannot be installed in the same instrument

* Note: When ordering electrochemical sensors, please select the lower number first

E Low-Power Sensor (Options: Dummy / Electrochemical Sensors)			
0	Empty	Dummy sensor	+
Electrochemical Sensors			
1	H2S	Hydrogen Sulfide (H2S) sensor (up to 100 ppm)	+
2	CO	Carbon Monoxide (CO) sensor (up to 500 ppm)	+
3	SO2	Sulfur Dioxide (SO2) sensor	+
4	NO	Nitric Oxide (NO) sensor	+
5	NO2	Nitrogen Dioxide (NO2) sensor	+
6	Cl2	Chlorine (Cl2) sensor	+
7	HCN	Hydrogen Cyanide (HCN) sensor	+
8	NH3	Ammonia (NH3) sensor	+
9	PH3	Phosphine (PH3) sensor (up to 20 ppm reading)	+
A	ClO2	Chlorine Dioxide (ClO2) sensor	+
D	CO, HR	Carbon Monoxide (CO) sensor (up to 2,000 ppm)	+
E	O2	Oxygen (O2) sensor	+
F	CO comp. H2	Carbon Monoxide (CO) sensor (H2-compensated)	+
H	CH3-SH	Methyl Mercaptan (CH3-SH) sensor	+
J	EtO-A	Ethylene Oxide (EtO-A) sensor (0 - 100 ppm; 1 ppm res.)	+
K	EtO-B	Ethylene Oxide (EtO-B) sensor (0 - 10 ppm, 0.1 ppm res.)	+
Q	HCHO	Formaldehyde (HCHO) sensor	+
S	O2	Liq. Oxygen (O2) sensor, 3-year warranty	+

* Note: ClO₂ and H₂S sensors cannot be installed in the same instrument

** Note: NO and NH₃ sensors cannot be installed in the same instrument

* Note: When ordering electrochemical sensors, please select the lower number first

F Wireless Options			
0	Empty	Non-wireless	+
3	W-868	Wireless, 868 MHz (built-in wireless modem)	+
4	W-900	Wireless, 900 MHz (built-in wireless modem)	+

G Battery Options			
1	Extended-duration (Li-ion) battery with alkaline adapter		+
2	Rechargeable (Li-ion) battery with alkaline adapter		+
3	Alkaline battery pack		+

H Kits and Accessories			
1	Accessories (no gas or regulator) - Shipped in Hard case		+
3	Accessories / Cal. Kit (with 2 regulators) - Shipped in hard case 4-gas (LEL / O ₂ / CO / H ₂ S) + 5ppm benzene		+

MZBM-AA BB C D E - F G H

Total

MultIRAE Benzene Configuration Guide

Select one option for Certification, Model, and one for each Feature Group (AA through H), to build a complete model number:

