

QRAE 3 One-to-Four-Gas Detector (PGM-25XX Series)



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QRAE 3 wireless portable one-to-four gas personal protection / confined space monitors

The QRAE 3 is a durable and versatile diffusion or pumped one-to-four gas monitor for detection of combustibles, oxygen, hydrogen sulfide, carbon monoxide, sulfur dioxide, hydrogen cyanide and other sensors. Standard features include easy-to-change battery packs, easy access to sensors, internal vibrating alarm, loud 95dB audible alarm, and a water-resistant IP-65 case design. The rechargeable Lithium-ion battery delivers up to 14 hours of continuous operation in non-wireless diffusion mode.

QRAE 3 integrated wireless option allows the device to be used either in a closed loop system (compatible with EchoView host) or with ProRAE Guardian, Real-Time Wireless Safety System.



Monitor-only configuration includes:

- Monitor as specified
- Sensors as specified
- Sampling option as specified
- Calibration adapter (diffusion model only)
- T Calibration tube (pumped model only)
- Internal filters (mounted - diffusion model only)
- External filters (one mounted plus pack of 3 - pumped model only)
- Travel charger cradle with computer cable
- Lithium-ion battery pack
- Universal wall adapter
- CD ROM with ProRAE Studio II
- CD ROM with product content
- Quick Reference Guide

Optional Confined Space Kit 1 (CSK 1, P/N 020-0040-010) includes:

- Hard transport case with pre-cut foam
- Tool Kit
- Hand pump
- 10" stiff aluminum Sample probe with replaceable filter
- 6 feet (2 meters) Tygon® tubing
- External filter (pack of 3)

Optional Confined Space Kit 2 for PGM2500(D) (CSK 2, P/N 020-0040-020) includes:

- Four-gas mix in a 34L cylinder, part number 600-0050-007 (50% LEL, 18% O₂, 10 ppm Hydrogen Sulfide, 50 ppm Carbon Monoxide)
- Regulator and tubing

Note: Both the QRAE 3 diffusion and pumped models are compatible with QRAE 3 Cradle for AutoRAE 2 Automatic Test and Calibration Station. Please contact RAE Systems for availability

Listed below are some common configurations of the QRAE 3 monitors. For others, please use the Assemble-To-Order (ATO) Configuration Guide below.

Standard Sensor Configurations - QRAE 3

	Diffusion	Pumped	Wireless	Accessories Kit	PART NUMBER	List Price [USD \$]
LEL / H₂S / CO / O₂ sensors						
QRAE 3 Pumped CSA LEL / H ₂ S / CO / O ₂ - Li-ion / Non-Wireless		•	•	•	M020-11111-111	
QRAE 3 Pumped CSA LEL / H ₂ S / CO / O ₂ - Li-ion / Wireless (900MHz)		•	•	•	M020-11211-111	
QRAE 3 Pumped ATEX LEL / H ₂ S / CO / O ₂ - Li-ion / Wireless (868MHz)		•	•	•	M020-12311-111	
QRAE 3 Diffusion CSA LEL / H ₂ S / CO / O ₂ - Li-ion / Non-Wireless	•			•	M020-21111-111	
QRAE 3 Diffusion CSA LEL / H ₂ S / CO / O ₂ - Li-ion / Wireless (900MHz)	•			•	M020-21211-111	
QRAE 3 Diffusion ATEX LEL / H ₂ S / CO / O ₂ - Li-ion / Wireless (868MHz)	•			•	M020-22311-111	
LEL / O₂ / CO / HCN sensors						
QRAE 3 Pumped CSA LEL / O ₂ / CO / HCN - Li-ion / Non-Wireless		•		•	M020-11112-141	
QRAE 3 Pumped CSA LEL / O ₂ / CO / HCN - Li-ion / Wireless (900MHz)		•		•	M020-11212-141	
QRAE 3 Pumped ATEX LEL / O ₂ / CO / HCN - Li-ion / Wireless (868MHz)		•		•	M020-12312-141	
QRAE 3 Diffusion CSA LEL / O ₂ / CO / HCN - Li-ion / Non-Wireless	•			•	M020-21112-141	
QRAE 3 Diffusion CSA LEL / O ₂ / CO / HCN - Li-ion / Wireless (900MHz)	•			•	M020-21212-141	
QRAE 3 Diffusion ATEX LEL / O ₂ / CO / HCN - Li-ion / Wireless (868MHz)	•			•	M020-22312-141	

A	Pump & Diffusion								
1	QRAE 3 - Pump								USD \$
2	QRAE 3 - Diffusion								USD \$
	B	Certification							
1		cCSAus							USD \$
2		ATEX / IECEX							USD \$
	C	Wireless							
1		no-wireless							USD \$
2		900MHz wireless							USD \$
3		868MHz wireless							USD \$
	D	Socket1 Sensor							
0		Empty							USD \$
1		LEL							USD \$
	E	Socket2 Sensor							
0		Empty							USD \$
1		H2S							USD \$
2		CO							USD \$
3		SO2							USD \$
4		HCN							USD \$
5		PH3							USD \$
6		NH3							USD \$
	F	Socket3 Sensor							
0		Empty							USD \$
1		OXY							USD \$
	G	Socket4 Sensor							
0		Empty							USD \$
1		CO							USD \$
2		H2S							USD \$
3		SO2							USD \$
4		HCN							USD \$
5		PH3							USD \$
6		NH3							USD \$
	H	Kits							
1		Accessory kit							USD \$ 0

*** Note:** QRAE 3 cannot be ordered with less than 2 sensors installed in the same instrument

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

We do not recommend the following EC sensor combinations:
 NH3 / H2S
 NH3 / SO2
 HCN / H2S

*** Note:** Please refer to TN114 for cross interference between electrochemical sensors

M020 - A B C D E - F G H

Total

QRAE 3 Configurator Guide

From the table above, select one option from each Feature Group, **A** through **H**, to build a complete model number:

M020-	A	B	C	D	E	-	F	G	H
QRAE 3 PGM-2500	Sampling Option	Certification	Wireless	Sensor 1	Sensor 2		Sensor 3	Sensor 4	Kits

QRAE 3, PGM-2560 Series



A	Pump & Diffusion									
1	QRAE 3 - Pump									USD \$
2	QRAE 3 - Diffusion									USD \$
B	Certification									
1	cCSAus									USD \$
2	ATEX/ IECEx									USD \$
C	Wireless									
1	no-wireless									USD \$
2	900MHz wireless									USD \$
3	868MHz wireless									USD \$
D	Socket1 Sensor									
0	Empty									USD \$
1	LEL									USD \$
E	Socket2 Sensor									
0	Empty									USD \$
1	Cl2									USD \$
2	NO2									USD \$
F	Socket3 Sensor									
0	Empty									USD \$
1	OXY									USD \$
G	Socket4 Sensor									
0	Empty									USD \$
1	CO									USD \$
2	H2S									USD \$
3	SO2									USD \$
4	HCN									USD \$
5	PH3									USD \$
6	NH3									USD \$
H	Kits									
1	Accessory kit									USD \$ 0

* Note: QRAE 3 cannot be ordered with less than 2 sensors installed in the same instrument

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

* Note: Please refer to TN114 for cross interference between electrochemical sensors

M026 - **A** **B** **C** **D** **E - F** **G** **H**

Total

QRAE 3 Configurator Guide

From the table above, select one option from each Feature Group, **A** through **H**, to build a complete model number:

M026-	A	B	C	D	E	F	G	H
QRAE 3 PGM-2560	Sampling Option	Certification	Wireless	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Kits