

# **MicroRAE**

# Wireless 4-Gas Monitor

The MicroRAE four-gas portable detector brings enhanced user-friendliness and flexibility to wireless gas detection. This enables continuous, instant visibility of safety threats for faster, more informed decisions, to protect workers, facilities, and the environment, and to optimize operations.

The MicroRAE is a wireless diffusion detector that simultaneously monitors up to four gases, including hydrogen sulfide, carbon monoxide, oxygen and combustibles (LEL). With its different wireless connectivity options the MicroRAE can deliver real-time instrument readings and alarm status to other wireless offerings such as ConneXt Plus, ConneXt Pro, ConneXt Loneworker<sup>4</sup> and Safety Communicator.

- Man Down Alarm with real-time remote wireless notification<sup>1</sup>
- GPS module for location
- Bluetooth® low energy connection to a Smart Phone device for uplink data communication and device configuration
- Remote notification & Panic function
- Fully automated bump testing and calibration with AutoRAE 2



## **Industries**

Personal protection and general safety and compliance in:

- Lone Worker Applications
- Oil and Gas
- Waste water treatment
- Utilities

- Telecommunications
- Firefighting
- Petrochemicals
- Construction

# **Optional Accessories**

- AutoRAE 2 Automatic Test and Calibration Systems
- Gang Charger (5 units)
- Auxiliary filter
- Hand pump kit
- Truck mount charger

# FEATURES & BENEFITS

- Honeywell ConneXt compatible with Mesh and Wifi wireless configurations
- Compact and lightweight
- IP-67 water- and dust-resistant case
- Strong, protective, concussion-proof design
- Real-time gas concentration readings, location, alarm and status enabled by state of-the-art wireless technology
- Unmistakable five-way local and remote notification of alarm conditions
- Short bump test and calibration time
- Global approval for worldwide acceptance
- Filtered LEL sensor options to inhibit sensor poisoning
- Compatible with Safety Communicator

# MicroRAE Specifications

SIZE 4, 6 x 3.0 (2.6) 3.0 x 0.9 in (1.17 x 76 (66) 74 x 24mm)  WEIGHT 7.03 oz (206g) (including Li-ion battery and clip)  SENSORS LEL Catalytic bead for combustibles, Liquid Dxygen (0_1), Electrochemical Sensor for CO, H <sub>2</sub> S, HCN  BATTERY Rechargeable Li-ion  I 5 hours continuous non-wireless, 11 hours continuous wireless Note: All battery specifications at 68° F (20° C), lower temperatures and alarm conditions will affect runtime  Noncohrome display, 1.73 x 1.29 in (44 x 33 mm) with 2 color back light modes  KEYPAD Two-button operation  Real time reading of gas concentration and Man Down indicators  Multiple units display options  Wireless and GPS ON/OFF and reception quality  STEL, TWA, peak, and minimum values  Intelliflash and policy enforcement indicators  Multiple units display options  Multiple units display options  Alarms: altaching, non latching or manual override Additional diagnostic alarm and display message for low battery  Wireless connectivity alarm  Man Down Alarm and real-time remote wireless notification  DATALOGGING  Continuous datalogging (6 month for 4 sensors at 1-minute intervals)  User-configurabel datalogging intervals (from 1 to 3,600 seconds)  COMMUNICATION & DATA  DOWNLOAD  Alarms: Elasting, non latching or manual overside  Advitional diagnostic alarm and display message for low battery  Wireless Cannectivity alarm  Man Down Alarm and real-time remote wireless notification  COMMUNICATION & DATA  DOWNLOAD  Data download and instrument set-up and upgrades on PC via Travel Charger  Wireless Stan and status transmission via built-in RF modern (optional)  WIRELESS NETWORK  RAE Dedicated Wireless Mesh network or Standard WiFi  Up to 650 ft (200m) for subl GHz Mesh Radio <sup>3</sup> , Up to 330 ft (100m) for WiFP, Up to 15 ft (5m) for BLE  EMC/RFI  PRATING  IP-67  CALIBRATION  SAFETY CERTIFICATIONS  WIRELESS ABORE (TYPICAL)  EMC Girective: 2004/108/EC  PI PRATING  IP-67  CALIBRATION  SA Canada-Class I, Division 1, Groups A, B, C and D  WIRELESS ABORE (TYPICAL)  SA Canada-Class I, Division 1, Groups	INSTRUMENT SPECIFICATIONS		
WEIGHT         7.03 oz (206g) (including Li-ion battery and clip)           SENSORS         LEL Catalytic bead for combustibles, Liquid Oxygen (0²), Electrochemical Sensor for CO, H₂S, HCN           BATTERY         Rechargeable Li-ion           RUNNING TIME         15 hours continuous non-wireless, 11 hours continuous wireless           Note: All battery specifications at 68° F (20° C); lower temperatures and alarm conditions will affect runtime           DISPLAY GRAPHIC         Monochrome display, 1.73 x 1.29 in (44 x 33 mm) with 2 color back light modes           KEYPAD         Too-button operation           Real time reading of gas concentration and Man Down indicators         Willed units display options           Wireless and CPS ON/OFF and reception quality         STEL, TWA, peak, and minimum values           Intellidifash and policy enforcement indicators         Multi-tone 100dB buzzer (at 11.8°7 30 cm, typical), vibration alarm, and flashing LEDs and on-screen indication of alarm conditions           ALARMS         Multi-tone 100dB buzzer (at 11.8°7 30 cm, typical), vibration alarm, and flashing LEDs and on-screen indication of alarm conditions           ALARMS         Continuous datalogging (6 month for 4 sensors at 1-minute intervals)           User-configurable datalogging in intervals (from 1 to 3,600 seconds)           COMMUNICATION & DATA DOWNLOAD         Data download and instrument set-up and upgrades on PC via Travel Charger Download and instrument set-up and upgrades on PC via Travel Charger Wireless Ada and status transmission vi			
SENSORS         LEL Catalytic bead for combustibles, Liquid Oxygen (O₂), Electrochemical Sensor for CO, H₂S, HCN           BATTERY         Rechargeable Li-ion           RUNNING TIME         15 hours continuous non-wireless, 1.1 hours continuous wireless Note: All battery specifications at 689°F (20°°C); lower temperatures and alarm conditions will affect runtime           DIRECT READOUT         Two-button operation         Real time reading of gas concentration and Man Down indicators Multiple units display options Wireless and 69°S ON/OFF and reception quality STEL, TWA, peak, and minimum values Intellifiash and policy enforcement indicators Multi-ince 100dB buzzer (at 11.8'7 30 cm, typical), vibration alarm, and flashing LEDs and on-screen indication of alarm conditions Alarms. latching, non latching or manual override Additional diagnosts clarm and display message for low battery Wireless connectivity alarm Man Down Alarm and real-time remote wireless notification           DATALOGGING         Continuous datalogging (6 month for 4 sensors at 1-minute intervals) User-configurabel datalogging intervals (from 1 to 3.600 seconds)           COMMUNICATION & DATA DOWNLOAD         Data download and instrument set-up and upgrades on PC via Travel Charger Wireless Ada and status transmission via built-in RF modem (optional)           WIRELESS RANGE (TYPICAL)         Up to 650 ft (200m) for sub LGHz Mesh Radio², Up to 330 ft (100m) for WiFi², Up to 15 ft (5m) for BLE           EMC/right         EMC directive; 2004/108/EC           IP-67         CALIBRATION         Two-point calibration (manual, or automatic with AutoRAE 2)           Us & Canada: Class I, Division I, Gr			
REUNNING TIME  RUNNING TIME  DISPLAY GRAPHIC  Monochrome display, 1.73 x 1.29 in (44 x 33 mm) with 2 color back light modes  KEYPAD  Two-button operation  Real time reading of gas concentration and Man Down indicators  Multiple units display options  Wireless and GPS ON/OFF and reception quality  STEL, TWA, peak, and minimum values  Intellifiash and policy enforcement indicators  Multi-tone 100dB buzzer (at 11.8 7/30 cm, typical), vibration alarm, and flashing LEDs and on-screen indication of alarm conditions  ALARMS  ALARMS  Multi-tone 100dB buzzer (at 11.8 7/30 cm, typical), vibration alarm, and flashing LEDs and on-screen indication of alarm conditions  Alarms latching, non latching or manual override  Additional diagnostic alarm and display message for low battery  Wireless connectivity alarm  Man Down Alarm and real-time remote wireless notification  DATALOGGING  Continuous datalogging (6 month for 4 sensors at 1-minute intervals)  User-configurabel datalogging intervals (from 1 to 3,600 seconds)  COMMUNICATION & DATA  DOWNLOAD  WIRELESS NETWORK  RE Dedicated Wireless Mesh network or Standard WiFI  WIRELESS RANGE (TYPICAL)  Up to 650 ft (200m) for sub1GHz Mesh Radio³, Up to 330 ft (100m) for WiFi³, Up to 15 ft (5m) for BLE  EMC/RFI  CALIBRATION  IP-67  CALIBRATION  US & Canada: Class I, Division 1, Groups A, B, C and D  © II 26 Ext al IICT4 Gb  © III EX is al IICT4 Gb			
Note: All battery specifications at R89 F (20° C), lower temperatures and alarm conditions will affect runtime  DISPLAY GRAPHIC  Monochrome display, 1.73 x 1.29 in (44 x 33 mm) with 2 color back light modes  KEYPAD  Two-button operation  Real time reading of gas concentration and Man Down indicators Multiple units display options Wireless and GPS ON/OFF and reception quality STEL, TWA, peak, and minimum values Intelliflash and policy enforcement indicators  Multi-tone 100dB buzzer (at 11.87 30 cm, typical), vibration alarm, and flashing LEDs and on-screen indication of alarm conditions  Alarms latching, non latching or manual override Additional diagnostic alarm and display message for low battery Wireless connectivity alarm Man Down Alarm and real-time remote wireless notification  DATALOGGING  Continuous datalogging (6 month for 4 sensors at 1-minute intervals) User-configurabel datalogging intervals (from 1 to 3,600 seconds)  COMMUNICATION & DATA DOWNLOAD  WIRELESS NETWORK  REDedicated Wireless Mesh network or Standard WiF WIRELESS RANGE (TYPICAL) Up to 650 ft (200m) for sub1GHz Mesh Radio³, Up to 330 ft (100m) for WiFi³, Up to 15 ft (5m) for BLE  EMC/RFI EMC/			
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SAFETY CERTIFICATIONS  ☐ II 2G Ex ia d IIC T4 Gb ☐ IM1 EX ia I Ma  TEMPERATURE  -4° to 140° F (-20° to 60° C) for T4 temperature code  HUMIDITY  0% to 95% relative humidity (non-condensing)  ATTACHMENTS  Stainless-steel alligator clip: wrist wrap (optional)  WARRANTY  2-year warranty on device and sensors²  MODEL NUMBER  PGM26XX  WIRELESS  ISM license free band. IEEE 802.15.4 Sub 1 GHz, IEEE 802.11 bands b/g 2.4 GHz  WIRELESS APPROVALS  FCC Part15, CE R&TTE, Bluetooth 4.0, GPS, Others⁴  GAS MONITOR  RANGE  RESOLUTION	CALIBRATION	Two-point calibration (manual, or automatic with AutoRAE 2)	
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ATTACHMENTS  Stainless-steel alligator clip: wrist wrap (optional)  2-year warranty on device and sensors²  MODEL NUMBER  PGM26XX  WIRELESS  ISM license free band. IEEE 802.15.4 Sub 1 GHz, IEEE 802.11 bands b/g 2.4 GHz  WIRELESS APPROVALS  FCC Part15, CE R&TTE, Bluetooth 4.0, GPS, Others4  GAS MONITOR  RANGE  RESOLUTION	TEMPERATURE	-4° to 140° F (-20° to 60° C) for T4 temperature code	
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MODEL NUMBER     PGM26XX       WIRELESS     ISM license free band. IEEE 802.15.4 Sub 1 GHz, IEEE 802.11 bands b/g 2.4 GHz       WIRELESS APPROVALS     FCC Part15, CE R&TTE, Bluetooth 4.0, GPS, Others <sup>4</sup> GAS MONITOR     RANGE     RESOLUTION	ATTACHMENTS	•	
WIRELESS ISM license free band. IEEE 802.15.4 Sub 1 GHz, IEEE 802.11 bands b/g 2.4 GHz WIRELESS APPROVALS FCC Part15, CE R&TTE, Bluetooth 4.0, GPS, Others <sup>4</sup> GAS MONITOR RANGE RESOLUTION	WARRANTY	2-year warranty on device and sensors <sup>2</sup>	
WIRELESS APPROVALS FCC Part15, CE R&TTE, Bluetooth 4.0, GPS, Others <sup>4</sup> GAS MONITOR RANGE RESOLUTION	MODEL NUMBER	PGM26XX	
GAS MONITOR RANGE RESOLUTION	WIRELESS	ISM license free band. IEEE 802.15.4 Sub 1 GHz, IEEE 802.11 bands b/g 2.4 GHz	
	WIRELESS APPROVALS	FCC Part15, CE R&TTE, Bluetooth 4.0, GPS, Others <sup>4</sup>	
<b>OXYGEN (O<sub>2</sub>)</b> 0 to 30.0% 0.1%	GAS MONITOR	RANGE	RESOLUTION
	OXYGEN (O <sub>2</sub> )	0 to 30.0%	0.1%
COMBUSTIBLE 0 to 100% LEL 1% LEL	COMBUSTIBLE	0 to 100% LEL	1% LEL
CARBON MONOXIDE (CO)         0 to 1,000 ppm         0 - 250 ppm / 1 ppm 250 - 1,000 ppm / 3 ppm	CARBON MONOXIDE (CO)	0 to 1,000 ppm	
<b>HYDROGEN SULFIDE (H<sub>2</sub>S)</b> 0 to 100 ppm 0 - 50 ppm / 0.1 ppm $50 - 100 \text{ ppm}$ / 1 ppm	HYDROGEN SULFIDE (H <sub>2</sub> S)	0 to 100 ppm	
HYDROGEN CYANIDE (HCN)0 to 50 ppm0.2 ppm	HYDROGEN CYANIDE (HCN)	0 to 50 ppm	0.2 ppm

- Additional equipment and/or software licenses may be required to enable remote wireless monitoring and alarm transmission
- 2 Against factory defects
- 3 Receiving > 80%
- 4 Contact RAE Systems for country specific wireless approvals and certificates

Specifications are subject to change

#### ORDERING INFORMATION

Refer to the Portables
 Pricing guide for
 monitor configurations
 and accessories

DOWNLOAD YOUR FREE TRAINING APP









### For more information

www.honeywellanalytics.com www.raesystems.com

## Europe, Middle East, Africa

Life Safety Distribution GmbH
Tel: 00800 333 222 44 (Freephone number)
Tel: +41 44 943 4380 (Alternative number)
Middle East Tel: +971 4 450 5800 (Fixed Gas Detection)
Middle East Tel: +971 4 450 5852 (Portable Gas Detection)

### **Americas**

Honeywell Analytics Distribution Inc. Tel: +1 847 955 8200 Toll free: +1 800 538 0363

RAE Systems by Honeywell Phone: 408.952.8200 Toll Free: 1.888.723.4800

# **Asia Pacific**

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## **Technical Services**

EMEA: HAexpert@honeywell.com US: ha.us.service@honeywell.com AP: ha.ap.service@honeywell.com

www.honeywell.com

AUTHORIZED DISTRIBUTOR: GasDetectorsUSA.com Houston, Texas USA sales@GasDetectorsUSA.com 832-615-3588

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