GazDetect
Every day Safer

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▶ Radius BZ1
Area gas monitor

Technical specifications

Sensors: Up to 6 sensors (catalytic bead, photoionization detector, and electrochemical)
Up to 7 simultaneous readings
Display: 11.2 cm (4.4 in) monochrome backlit liquid crystal display (LCD). Impact-resistant polycarbonate alloys
Power source & run time:
Rechargeable nickel-metal hydride (NiMH) battery pack
- 7 days (168 hours) typical at 20 ºC, without pump, wireless
- 3.5 days (84 hours) typical at 20 ºC, with pump, wireless
- 30 days (720 hours) typical at 20 ºC, electrochemical sensors only, without pump, wireless
- 50 days following the configuration
≤8 hours recharge time
Alarms:
- 108 decibel (dB) at 1 m (3.3 ft) redundant audible alarms
- Redundant, visual alarm LEDs (red and blue)
Data log: At least 3 months at 10-seconds intervals
Housing: shock-proof polycarbonate alloy
Dimensions / Weight: 29 x 29 x 55 cm / 7,5 kg (16,5 lb)
Ingress protection: IP66
Temperature range: -20 °C to 55 °C (-4 °F to 131 °F)
Humidity range: De 15 % à 95 % sans condensation (continue)
Pump:
Optional integral pump, up to 30.48 m (100 ft) sample draw
Certifications:
- UL: Cl I, Div 1, Gr A, B, C et D, T4
  Cl 1 Zone 0 AEx da ia IIC T4 Ga1
- CSA: Cl I, Div 1, Gr A, B, C et D, T4
  C22.2 No.152 applies only to %LEL thermocatalytic measure
- ATEX: Ex da ia IIC T4 Ga, Equipment Group and Category II 1G
- IECEx: Ex da ia IIC T4 Ga

Product description

Area monitors need two things to be efficient: precise sensor technology to detect hazardous gases and the robustness to withstand long outdoor deployments.

With the Radius BZ1, all critical technology pieces such as sensors, software, pumps, and wireless, are part of the patented SafeCoreTM module.

Smart sensors are positioned face down to prevent the elements from interfering with gas readings, resulting in fewer false alarms.

The module slides out from the Radius BZ1 base for easy docking and automated maintenance, ensuring that your sensors are always ready to provide accurate gas detection.

The Radius BZ1 base is made of a durable, weather-resistant plastic. The base has built-in audio and visual alarms that grab workers attention, even in high-noise environments.

A large battery keeps the unit working as long as you do, and side-grip handles help make the base easy to move from location to location.

The Radius BZ1 is available with optional LENS Wireless. With the LENS Wireless technology, your devices will connect once being turned on—with no need for setup or additional infrastructure.

You will instantly receive real time gas readings from other connected instruments on the network, helping your team react faster in emergency situations.

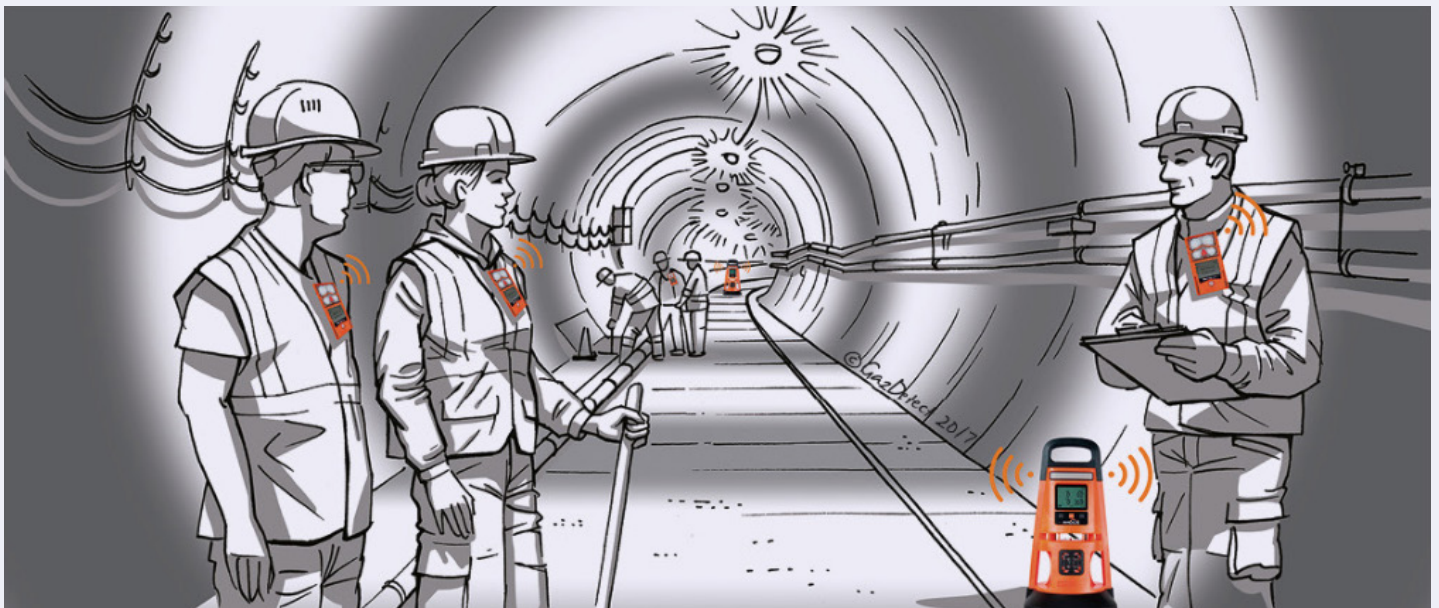**No wires:** optional LENS Wireless proprietary mesh network
- Frequency: ISM license-free band (2.4 GHz)
- Max Peers: 25 devices per network group, 10 independent configurable network groups
- Range: 300m (approx. 1,000 ft) line of sight
- Encryption: AES-128
- Certifications: FCC Part 15, Others

Radius BZ1 assets

- Monitor up to seven gases using 15 sensor options including PID
- Longest running area monitor with a usual run time of 7 days (168 hours)
- Built in external safety power supply can extend battery to over 1 month
- Ultra-bright blue and red lights and attention-grabbing alarms with distinctive tones
- Audible alarms sound at 108 dB at 1 m to cut through high-noise environments
- Largest display compared to any area monitor on the market
- Intuitive text-based navigation and configuration
- Customizable alarm action messages such as "EVACUATE" or "VENTILATE"
- Preset LENSTM Wireless communication requires no setup or additional infrastructure
- All-weather sensor deployment and 360-degree gas path for more accurate monitoring

Cells references

Gaz	Plage de mesure	Résolution	Référence
Cl2 (chlorine)	0 to 50 ppm	0.1 ppm	17156650-7
ClO2 (chlorine dioxide)	0 to 1 ppm	0.01 ppm	17156650-8
CO (carbon monoxide)	0 to 1 500 ppm	1 ppm	17156650-1
CO high range (carbon monoxide)	0 to 9 999 ppm	1 ppm	17156650-H
CO / H2 low (carbon monoxide)	0 to 1 000 ppm	1 ppm	17156650-G
CO (carbon monoxide) / H2S (hydrogen sulfide)	0 to 1 500 ppm 0 to 500 ppm	1 ppm 0.1 ppm	17156650-J
CO2 (carbon dioxide)	0 to 5 % vol.	0.01 %	17156650-Q
H2 (hydrogen)	0 to 2 000 ppm	1 ppm	17156650-C
H2S (hydrogen sulfide)	0 to 500 ppm	0.1 ppm	17156650-2
HCl (hydrogen chloride)	0 to 30 ppm	0.1 ppm	17156650-A
HCN (hydrogen cyanide)	0.4 to 30 ppm	0.1 ppm	17156650-B
NH3 (ammonia)	0 to 500 ppm	1 ppm	17156650-6
NO (nitric oxide)	0 to 1000 ppm	1 ppm	17156650-D
NO2 (nitrogen dioxide)	0 to 150 ppm	0.1 ppm	17156650-4
O2 (oxygen)	0 to 30 % vol.	0.1 %	18109474-3
PH3 (phosphine)	0 to 5 ppm	0.01 ppm	17156650-9
SO2 (sulfur dioxide)	0 to 150 ppm	0.1 ppm	18109476-5
VOC (Volatile Organic Compounds)	0 to 2 000 ppm	0.1 ppm	17156650-R