



Specifications Sheet



When it comes to choosing equipment to protect your worksite from gas hazards, rely on the Radius® BZ1 Area Monitor. No other area monitor protects your workers longer in the field with less setup, user training, and time in the shop.

- Detect up to seven gases using 22 sensor options including PID
- Longest running area monitor with a typical run time of 7 days (168 hours)
- Extended Run Time 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 of any area monitor on the market
- Intuitive text-based navigation and configuration
- Customizable alarm action messages such as “EVACUATE” or “VENTILATE”
- LENS™ Wireless enables communication between area monitors and Ventis® Pro5 personal monitors
- All-weather sensor deployment and 360-degree gas path for more accurate detection
- DualSense® Technology increases worker safety by using two sensors to detect the same gas

## SPECIFICATIONS\*

### MEASURING RANGES

#### CATALYTIC BEAD

Combustible Gases: 0-100% LEL in 1% increments

#### ELECTROCHEMICAL

Ammonia (NH <sub>3</sub> ):	0-500 ppm in 1 ppm increments
Carbon Monoxide (CO):	0-1,500 ppm in 1 ppm increments
Carbon Monoxide (CO High Range):	0-9,999 ppm in 1 ppm increments
Carbon Monoxide (CO/H <sub>2</sub> Low):	0-1,000 ppm in 1 ppm increments
Carbon Monoxide/Hydrogen Sulfide:	CO: 0-1,500 ppm in 1 ppm increments H <sub>2</sub> S: 0-500 ppm in 0.1 ppm increments
Chlorine (Cl <sub>2</sub> ):	0-50 ppm in 0.1 ppm increments
Hydrogen (H <sub>2</sub> ):	0-2,000 ppm in 1 ppm increments
Hydrogen Sulfide (H <sub>2</sub> S):	0-500 ppm in 0.1 ppm increments
Hydrogen Cyanide (HCN):	0-30 ppm in 0.1 ppm increments
Nitrogen Dioxide (NO <sub>2</sub> ):	0-150 ppm in 0.1 ppm increments
Oxygen (O <sub>2</sub> ):	0-30% vol in 0.1% increments
Sulfur Dioxide (SO <sub>2</sub> ):	0-150 ppm in 0.1 ppm increments
Phosphine (PH <sub>3</sub> ):	0-5 ppm in 0.01 ppm increments
Nitric Oxide (NO):	0-1,000 ppm in 1 ppm increments
Chlorine Dioxide (ClO <sub>2</sub> ):	0-1 ppm in 0.01 ppm increments
Hydrogen Chloride (HCL):	0-30 ppm in 0.1 ppm increments

#### INFRARED

Carbon Dioxide (CO <sub>2</sub> ):	0-5% vol in 0.01% increments
Hydrocarbon (HC):	0-100% LEL in 1% LEL increments
Methane (CH <sub>4</sub> ):	0-100% LEL in 1% LEL increments

#### PHOTOIONIZATION

Volatile Organic Compounds (10.6 eV): 0-2,000 ppm in 0.1 ppm increments

#### PUMP

Optional integral pump, up to 30.48 m (100 ft) sample draw

#### WIRELESS

Optional LENS™ Wireless, mesh network

Frequency: ISM license-free band (2.405 - 2.480 GHz)

Max Peers: 25 devices per network group

10 independent, configurable network groups

Range: 300 m (~1,000 ft) line of sight

Encryption: AES-128

Approvals: FCC Part 15, IC, CE/RED, others \*\*

#### CERTIFICATIONS

##### INGRESS PROTECTION IP66

ATEX: Ex da ia IIC T4 Ga, Equipment Group and Category II 1G

China CPC: China CPC

China EX: Ex d ia IIC T1 Ga; Ex d ia IIC T4 Gb IR sensor

CSA: CI I, Div 1, G A-D, T4

C22.2 No. 152 applies only to %LEL thermo-catalytic reading

IECEX: Ex da ia IIC T4 Ga

INMETRO: Ex da ia IIC T4 Ga; Ex db ia IIC T4 Gb IR sensor

KC: Ex d ia IIC T4

UL: CI I, Div 1, Gr A-D, T4; CI 1 Zone 0 AEx da ia IIC T4 Ga1

#### SUPPLIED WITH MONITOR

Calibration cup (without pump), sample tubing and pump inlet water barrier (with pump), product manual, hand tool, charging power supply and region-specific cord

#### LANGUAGE

English, French, Spanish, German

\* These specifications are based on performance averages and may vary by instrument.

\*\* See [www.indsci.com/wireless-certifications](http://www.indsci.com/wireless-certifications) for country-specific wireless approvals and certifications.

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**LENS™  
WIRELESS**

The Radius BZ1 is available with optional LENS Wireless. With LENS Wireless, your instruments will connect seconds after 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.



With the Radius BZ1, all critical technology pieces such as sensors, software, pumps, and wireless, live inside the patent-pending SafeCore® 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 Base for easy docking and automated maintenance, ensuring that your sensors are always ready to provide accurate gas detection.



The Radius 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.

It has never been easier to keep your area monitors up and running in the field. The SafeCore Module and Radius Base work together to provide maximum gas detection ability, while simplifying the job of maintaining your area monitors.

For a list of all accessories, visit  
[www.indsci.com/radius](http://www.indsci.com/radius)