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 15 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
- Intrinsically Safe Extended Run Time Power Supply can provide indefinite run time in hazardous locations
- 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® Pro Series 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

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.

Test drive the Radius BZ1 online with the Instrument Simulator www.indsci.com/radius-simulator
Introducing the Radius BZ1: Where Tech Meets Tough

Area monitors need two things to be successful: precise sensor technology to detect hazardous gases and the ruggedness to withstand long outdoor deployments. That combination has yet to be designed without compromise, until now.

With the Radius BZ1, all critical technology pieces such as sensors, software, pumps, and wireless, live inside the patented 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.

SafeCore Modules Can Be Placed Into Any Base Allowing You to:

- Have a smaller fleet of instruments, e.g., one base and two rotating modules to ensure continuous uptime of instruments in the field.
- Easily dock the module on the DSX™ Docking Station to download data logs and alarm events, bump test, calibrate, and change settings.
- Adapt to your changing environment and reconfigure on the fly. Interchangeable modules allow you to switch from one sensor setup to another without needing more than one base. Or, switch from a non-pumped module to a pumped module to conduct confined space sampling.

Build and price your Radius BZ1 online with the Instrument Builder
www.indsci.com/radius-builder
Jump-start your gas detection program by selecting the appropriate monitor configuration, docking station, calibration gas, and regulator.

How Will You Maintain Your Radius BZ1?

<table>
<thead>
<tr>
<th>SELECT A MONITOR</th>
<th>PUMP</th>
<th>WIRELESS</th>
<th>MONITOR PART #</th>
<th>DOCKING STATION</th>
<th>CALIBRATION GAS</th>
<th>DEMAND FLOW</th>
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x = Agency Certification: 1 = UL/CSA, 2 = ATEX/IECEx | y = Language: 1 = EN, 2 = FR, 3 = ES, 4 = DE | z = Power Cord: 1 = North America, 2 = European, 3 = Australia, 4 = UK

What Accessories Best Fit Your Needs?

- Docking Stations
- Extra Modules or Bases
- Accessory Labels for Asset Management
- Probes
- Alarm Muffler
- Filters
- Sample Tubes
- Replacement Sensors
- Extended Run Time Power Supply
- Intrinsically Safe Extended Run Time Power Supply

For a list of all accessories, visit: www.indsci.com/radius
**SPECIFICATIONS**

**WARRANTY**
Two-year warranty, including sensors and battery

**KEYPAD**
Three buttons

**DATA LOG**
At least 3 months at 10-second intervals

**EVENT LOGGING**
60 alarm events

**INGRESS PROTECTION**
IP66

**CASE MATERIAL**
Impact-resistant polycarbonate alloys

**DIMENSIONS**
29 x 29 x 55 cm (11.5 x 11.5 x 21.5 in)

**WEIGHT**
7.5 kg (16.5 lb)

**TEMPERATURE RANGE**
-20 °C to 55 °C (-4 °F to 131 °F)

**HUMIDITY RANGE**
15% to 95% non-condensing (continuous)

**DISPLAY/READOUT**
11.2 cm (4.4 in) monochrome backlit graphical liquid crystal display (LCD)

**POWER SOURCE/RUN TIME**
Rechargeable nickel-metal hydride (NiMH) battery pack
7 days (168 hours) typical @ 20 °C, without Pump, with wireless
3.5 days (84 hours) typical @ 20 °C, with Pump, with wireless
30 days (720 hours) typical @ 20 °C, electrochemical sensors only, without Pump, with wireless
≤8 hour recharge time

**ALARMS**
108 decibel (dB) at 1 m (3.3 ft) redundant audible alarms
Redundant, visual alarm LEDs (red and blue)

**SENSORS**
Up to 6 sensors (catalytic bead, photoionization detector, and electrochemical)
Up to 7 simultaneous readings

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

**LANGUAGE**
English, French, Spanish, German

**MEASURING RANGES**

**CATALYTIC BEAD**
Combustible Gases: 0-100% LEL in 1% increments

**ELECTROCHEMICAL**
- Ammonia (NH₃): 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/H₂ Low): 0-1,000 ppm in 1 ppm increments
- Carbon Monoxide/Hydrogen Sulfide: CO: 0-1,500 ppm in 1 ppm increments, H₂S: 0-500 ppm in 0.1 ppm increments
- Chlorine (Cl₂): 0.5 ppm in 0.1 ppm increments
- Hydrogen (H₂): 0-2,000 ppm in 1 ppm increments
- Hydrogen Sulfide (H₂S): 0-500 ppm in 0.1 ppm increments
- Hydrogen Cyanide (HCN): 0-300 ppm in 0.1 ppm increments
- Oxygen (O₂): 0-30% vol in 0.1% increments
- Sulfur Dioxide (SO₂): 0-150 ppm in 0.1 ppm increments
- Phosphine (PH₃): 0-5 ppm in 0.01 ppm increments
- Nitric Oxide (NO): 0-1000 ppm in 1 ppm increments
- Nitrogen Dioxide (NO₂): 0-150 ppm in 0.1 ppm increments
- Chlorine (Cl₂): 0-50 ppm in 0.1 ppm increments
- Hydrogen (H₂): 0-2,000 ppm in 1 ppm increments
- Hydrogen Sulfide (H₂S): 0-500 ppm in 0.1 ppm increments
- Hydrogen Cyanide (HCN): 0-300 ppm in 0.1 ppm increments
- Oxygen (O₂): 0-30% vol in 0.1% increments
- Sulfur Dioxide (SO₂): 0-150 ppm in 0.1 ppm increments
- Phosphine (PH₃): 0-5 ppm in 0.01 ppm increments
- Nitric Oxide (NO): 0-1000 ppm in 1 ppm increments
- Chlorine (Cl₂): 0-50 ppm in 0.1 ppm increments
- Hydrogen (H₂): 0-2,000 ppm in 1 ppm increments
- Hydrogen Sulfide (H₂S): 0-500 ppm in 0.1 ppm increments
- Oxygen (O₂): 0-30% vol in 0.1% increments
- Sulfur Dioxide (SO₂): 0-150 ppm in 0.1 ppm increments
- Phosphine (PH₃): 0-5 ppm in 0.01 ppm increments
- Nitric Oxide (NO): 0-1000 ppm in 1 ppm increments

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

**WIRELESS**
Optional LENS™ Wireless, proprietary 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: Pending
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
IECEx: Ex da ia IIC T4 Ga
INMETRO: Ex da ia IIC T4 Ga; Ex db ia IIC T4 Gb IR sensor
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), hand tool, charging power supply and region-specific cord

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*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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**AVAILABLE FOR RENT**

For a list of available rental products, visit [www.indsci.com/rental](http://www.indsci.com/rental)