

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.

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- 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)
- Intrinsic safety external power supply can extend battery run time 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"
- Pre-configured LENS[™] Wireless networks require no setup or infrastructure
- 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
- iNet® and DSX™ Docking Station ready





The Radius BZ1 is available with optional LENS Wireless. With LENS Wireless, your instruments will be connected from the time you turn them 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.







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 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.

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.









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?









SELECT THE SENSORS	PUMP	WIRELESS	MONITOR PART #	DOCKING STATION	CALIBRATION GAS 116L	DEMAND FLOW REG.
LEL (Pentane), CO, H_2S , O_2			BZ1-K123000x0y	18109396-13z	18109157	18105841
LEL (Pentane), CO, H ₂ S, O ₂		1	BZ1-K123000x1y	18109396-13z	18109157	18105841
LEL (Pentane), CO, H_2S , O_2	*		BZ1-K123001x0y	18109396-13z	18109157	18105841
LEL (Pentane), CO, H ₂ S, O ₂	✓	✓	BZ1-K123001x1y	18109396-13z	18109157	18105841
LEL (Pentane), CO, H ₂ S, O ₂ , SO ₂			BZ1-K123500x0y	18109396-13z	18109234	18105841
LEL (Pentane), CO, H ₂ S, O ₂ , SO ₂		✓	BZ1-K123500x1y	18109396-13z	18109234	18105841
LEL (Pentane), CO, H ₂ S, O ₂ , SO ₂	✓		BZ1-K123501x0y	18109396-13z	18109234	18105841
LEL (Pentane), CO, H ₂ S, O ₂ , SO ₂	✓	✓	BZ1-K123501x1y	18109396-13z	18109234	18105841
LEL (Pentane), CO, H_2S , O_2 , SO_2 , PID			BZ1-K1235R0x0y	18109396-13z	18109234, 18102939 (103L)	18105841 x2
LEL (Pentane), CO, H ₂ S, O ₂ , SO ₂ , PID		1	BZ1-K1235R0x1y	18109396-13z	18109234, 18102939 (103L)	18105841 x2
LEL (Pentane), CO, H ₂ S, O ₂ , SO ₂ , PID	✓		BZ1-K1235R1x0y	18109396-13z	18109234, 18102939 (103L)	18105841 x2
LEL (Pentane), CO, H ₂ S, O ₂ , SO ₂ , PID	1	✓	BZ1-K1235R1x1y	18109396-13z	18109234, 18102939 (103L)	18105841 x2

 $x = Agency \ Certification: \ 1 = UL/CSA, \ 2 = ATEX/IECEx \ | \ y = Language: \ 1 = EN, \ 2 = FR, \ 3 = ES, \ 4 = DE \ | \ z = Power \ Cord: \ 1 = North \ America, \ 2 = European, \ 3 = Australia, \ 4 = UK \ America, \ 2 = European, \ 3 = Australia, \ 4 = UK \ America, \ 2 = European, \ 3 = Australia, \ 4 = UK \ America, \ 2 = European, \ 3 = Australia, \ 4 = UK \ America, \ 4 = U$

What Accessories Best Fit Your Needs?

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☐ Docking Stations	☐ Sample Tubes
Extra Modules or Bases	☐ Replacement Sensors
☐ Accessory Labels for Asset Management	Filters
Probes	☐ Intrinsic Safety External Power Suppl







SPECIFICATIONS* MEASURING RANGES: CATALYTIC BEAD WARRANTY: Combustible Gases: 0-100% LEL in 1% increments Two-year warranty, including sensors and battery KEYPAD: **ELECTROCHEMICAL** Three buttons Ammonia: 0-500 ppm in 1 ppm increments Carbon Monoxide (CO): 0-1,500 ppm in 1 ppm increments DATA LOG: Carbon Monoxide (CO High Range): 0-9,999 ppm in 1 ppm increments At least 3 months at 10-second intervals Carbon Monozide (CO/H₂ Low): 0-1,000 ppm in 1 ppm increments **EVENT LOGGING:** Carbon Monoxide/Hydrogen Sulfide: CO: 0-1,500 ppm in 1 ppm increments 60 alarm events H₂S: 0-500 ppm in 0.1 ppm increments **INGRESS PROTECTION:** Chlorine (CL₂): 0-50 ppm in 0.1 ppm increments Hydrogen (H₂): 0-2,000 ppm in 1 ppm increments IP66 Hydrogen Sulfide (H₂S): 0-500 ppm in 0.1 ppm increments **CASE MATERIAL:** Hydrogen Cyanide (HCN): 0.4-30 ppm in 0.1 ppm increments Impact-resistant polycarbonate alloys Nitrogen Dioxide (NO₂): 0-150 ppm in 0.1 ppm increments **DIMENSIONS:** Oxygen (O_2) : 0-30% vol in 0.1% increments 29 x 29 x 55 cm (11.5 x 11.5 x 21.5 in) Sulfur Dioxide (SO₂): 0-150 ppm in 0.1 ppm increments **WEIGHT: PHOTOIONIZATION** 7.5 kg (16.5 lb) Volatile Organic Compounds (10.6 eV): 0-2,000 ppm in 0.1 ppm increments **TEMPERATURE RANGE:** -20 °C to 55 °C (-4 °F to 131 °F) Optional integral pump, up to 30.48 m (100 ft) sample draw **HUMIDITY RANGE:** 15%-95% non-condensing (continuous) Optional LENS™ Wireless, proprietary mesh network **DISPLAY/READOUT:** Frequency: ISM license-free band (2.4 GHz) Max Peers: 25 devices per network group 11.2 cm (4.4 in) monochrome backlit graphical liquid crystal display (LCD) 10 independent, configurable network groups **POWER SOURCE/RUN TIME:** Range: 300 m (~1,000 ft) line of sight Rechargeable nickel-metal hydride (NiMH) battery pack Encryption: AES-128 7 days (168 hours) typical @ 20 °C, without pump, with wireless Approvals: FCC Part 15, Others** 3.5 days (84 hours) typical @ 20 °C, with pump, with wireless **CERTIFICATIONS:** 30 days (720 hours) typical @ 20 °C, electrochemical sensors only, without Class I, Division 1, Groups A, B, C, and D; T4 pump, with wireless Class 1 Zone 0 AEx da ia IIC T4 Ga1 ≤8 hour recharge time CSA: Class I, Division 1, Groups A, B, C, and D; T4 ALARMS: C22.2 No. 152 applies only to %LEL thermo-catalytic reading ATEX: Ex da ia IIC T4 Ga, Equipment Group and Category II 1G 108 decibel (dB) at 1 m (3.3 ft) redundant audible alarms IECEx: Ex da ia IIC T4 Ga Redundant, visual alarm LEDs (red and blue) **SUPPLIED WITH MONITOR:** SENSORS: Calibration cup (without pump), sample tubing and pump inlet water barrier (with Up to 6 sensors (catalytic bead, photoionization detector, and electrochemical) pump), product manual, hand tool, charging power supply and region-specific cord Up to 7 simultaneous readings **REFERENCE GUIDE LANGUAGE:** English, French, Spanish, German * These specifications are based on performance averages and may vary by instrument. ** See www.indsci.com/wireless-certifications for country-specific wireless approvals and certifications.

Notes:



Phone: +65-6561-7377 Fax: +65-6561-7787 info@ap.indsci.com

ASIA PACIFIC

EMEA

Phone:+33 (0)1 57 32 92 61 Fax: +33 (0)1 57 32 92 67 info@eu.indsci.com