



RADIUS® BZ1 AREA MONITOR

The Radius® BZ1 Area Monitor is a rugged area monitor that detects up to seven gases and connects your entire worksite. It can be deployed in seconds for emergency response. Radius BZ1 shares readings and alarms with other units and personal gas monitors through LENS Wireless, allowing you to create a dynamic safety network that changes with the needs of your operations.

- Detect up to seven gases simultaneously with 18 sensor options, including PID
- Know what's happening at a distance thanks to the largest display of any area monitor and customizable alarm action messages like "EVACUATE" or "VENTILATE"
- Gain real-time visibility and respond faster in an emergency by pairing with the RGX® Gateway and iNet Now for live monitoring
- DualSense® Technology increases worker safety by using two sensors to detect the same gas
- SafeCore® Module houses all critical technology out of the elements for fewer false alarms

See all features and benefits at
www.indsci.com/radius



SPECIFICATIONS*

WARRANTY

Two-year warranty, including Sensors and Battery

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)

POWER SOURCE/RUN TIME

Rechargeable Nickel-Metal Hydride (NiMH) Battery

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)

DISPLAY/READOUT

11.2 cm (4.4 in) monochrome backlit graphical Liquid Crystal Display (LCD)

KEYPAD Three buttons

INGRESS PROTECTION IP66

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

HUMIDITY RANGE

15% to 95% non-condensing (continuous)

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): 0-50 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): 0-30 ppm in 0.1 ppm increments

Nitrogen Dioxide (NO₂): 0-150 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

INFRARED

Carbon Dioxide (CO₂): 0-5% vol in 0.01% increments

PHOTOIONIZATION

VOC (10.6 eV): 0-2,000 ppm in 0.1 ppm increments

EVENT LOGGING: 60 alarm events

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

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 **

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

* 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.