

Extending Your Radius® BZ1 Run Time with External Power



Why Use an External Power Supply?

The Radius® BZ1 Area Monitor with LENS™ Wireless was released in September of 2016. Customers have found this instrument extremely easy to use and to configure into a wireless network, making it a popular choice for project and turnaround work. Although a non-pumped Radius BZ1 configured with LEL, CO, H₂S, and O₂ sensors is capable of running for seven days, increased battery run time is always beneficial. This is especially the case during hectic around-the-clock projects and turnaround work.

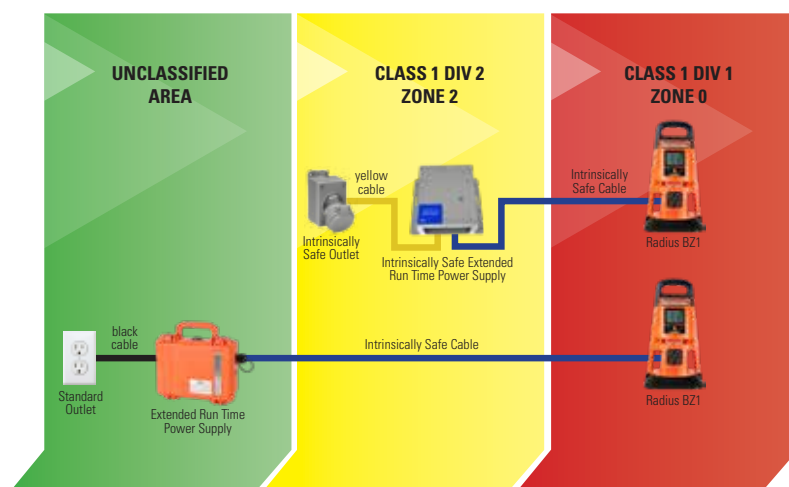
To extend Radius BZ1 battery run times even further, Industrial Scientific has released the Intrinsically Safe Extended Run Time Power Supply. The power supply is certified for use in Class I, Division 2 locations and can extend run time indefinitely. It joins the Extended Run Time Power Supply, which is certified for use only in safe zones, as the second supplemental power supply for Radius BZ1 Area Monitors. See below for run time estimates for the Radius BZ1 with and without supplemental power supplies.

Radius BZ1 Configuration	Run Time without Power Supply*	Run Time with Extended Run Time Power Supply* (18109388-1A)	Run time with Intrinsically Safe Extended Run Time Power Supply* (18109516)
LEL, CO, H ₂ S, and O ₂ sensors, no pump	7 days	Months	Continuous (indefinite)
LEL, CO, H ₂ S, and O ₂ sensors, with pump	3.5 days	Weeks	Continuous (indefinite)
LEL, CO, H ₂ S, O ₂ , and PID sensors, no pump	Up to 4 days	Weeks	Continuous (indefinite)
LEL, CO, H ₂ S, O ₂ , and PID sensors, with pump	Up to 2.5 days	4 days	7 days

*Run times at 68 degrees Fahrenheit (20 degrees Celsius)

† Requires installation of plug that meets area classification requirements

An important distinction between the Extended Run Time Power Supply and Intrinsically Safe Extended Run Time Power Supply is where they can be used. Refer to the graphic below.



As shown in the graphic, the Intrinsically Safe Extended Run Time Power Supply can be in a Class I, Div 2, or Zone 2 location. It includes a blue cable that can extend into a Class I, Div 1, or Zone 0 location where it connects to the Radius BZ1 Area Monitor. A yellow cable is plugged† into an intrinsically safe receptacle in a Class I, Div 2, or Zone 2 location.

For customers who do not have an intrinsically safe power receptacle, the Extended Run Time Power Supply is ideal. It should be plugged into a standard outlet and placed in a safe zone. The blue intrinsically safe cable can then extend to the Radius BZ1 Area Monitor in a Class I, Div 1, or Zone 0 location.

For additional information on the Intrinsically Safe Extended Run Time Power Supply for the Radius BZ1, contact your local Industrial Scientific representative. Contact information can be found at www.indsci.com/radius.