



ATTABOX® HEARTLAND™ ENCLOSURES PROVIDE PROTECTION OF WIRELESS CONTROLS IN TOUGH ENVIRONMENTS FOR REDLINE INSTRUMENTS, INC.

THE SITUATION:

Redline Instruments, Inc. has decades of combined experience in product design and applications in the gas and oil industry. Primary products include multi-channel monitors, alarms, and sensors to detect unwanted gas leaks. Products include hydrogen sulfide (H₂S), sulfur dioxide (SO₂), and Lower Explosive Limit (LEL) sensors.

Fourteen years ago, the company wanted to replace the current enclosure supplier with another supplier because the quality of the products was not meeting the high quality needs of the company's oil and gas customers.

THE CHALLENGE:

The Redline Instruments team knew, from prior experience, that metal was not the best option to protect wireless controls. Typically, to incorporate metal enclosures in wireless applications an antenna needs to be placed outside the box.

External antennas have many downsides, including vulnerability to environmental elements such as corrosion, ferrous-oxide deterioration, and natural ambient interference coming from environmental forces. A great alternative for Wi-Fi applications are non-metallic materials such as polycarbonate or fiberglass because they enable electronic signals to transmit freely.

The team also wanted to find an enclosure that was tough enough to withstand the corrosive atmosphere of gases such as hydrogen sulfide (H₂S) and Sulfur Dioxide (SO₂). There are lots of options on the marketplace that meet those needs but the team wanted to find a higher quality non-metallic enclosure as the current supplier quality was not up to par.



Polycarbonate is a great alternative for wireless applications because they enable electronic signals to transmit freely.

THE SOLUTION: ATTABOX ENCLOSURES

The engineering team reached out to a local Texas electrical representative to help them select a new supplier. In 2009, the representative introduced the team to AttaBox® Industrial Enclosures, Heartland™ series. What struck the team most was the high quality of the AttaBox enclosure.

“The quality of the Heartland series enclosure was visibly better than others I had also viewed,” said Gary Keating, Manager at Redline Instruments, Inc.



**Redline 8-Channel Wireless Monitor
made with AttaBox Industrial Enclosure**

AttaBox® is an innovative force in the engineering, manufacturing, and marketing of polycarbonate and fiberglass enclosures. AttaBox provides extremely high-quality engineered non-metallic NEMA-rated enclosures for the industrial, solar, electrical, telecommunications, HVAC, Instrumentation/Control, government, Oil/Gas, and construction markets. AttaBox enclosures provide UL certified protection for the most extreme environments (impact, rain, sleet, wind, fire, UV, direct spray).

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-Gary Keating, Redline Instruments, Inc.

CONCLUSION:

Since 2009, Redline Instruments, Inc. has been using off-the-shelf options and AttaBox enclosures of various sizes. Today, the company continues to use AttaBox enclosures because the enclosures have proven robust in the tough oil and gas environment and are manufactured using the highest-quality materials and processes.



**Redline RL-LAH Alarm
made with AttaBox Industrial Enclosure**

Attabox Industrial Enclosures offer Proven Protection by Design! Attabox is a brand of Robroy® Industries, serving the marketplace under one family ownership since 1905).

**FOR MORE
INFORMATION:**

Redline Instruments, Inc.
<https://rlii.net>

AttaBox Enclosures
www.atabox.com