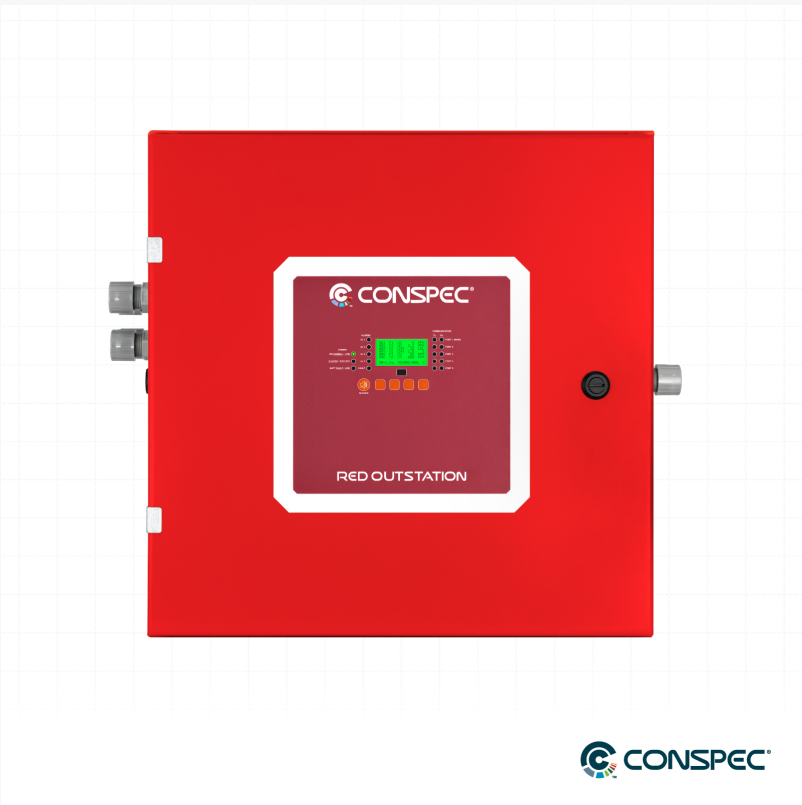
Conspec Controls Introduces New Red Outstation and Updated Optio G Multi-Gas Monitor for Underground Mining Applications

New network controllers and multi-gas monitors reinforce Conspec's continued investment in mine safety technology.



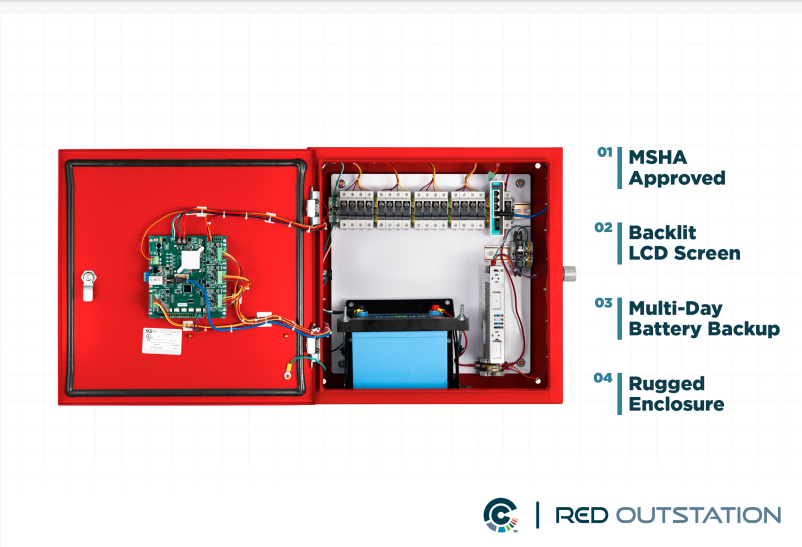
The Red Outstation provides a centralized communication and control platform for multi-gas monitors.

CHARLEROI, PA, UNITED STATES, September 29, 2026 / EINPresswire.com/ -- Conspec Controls, a provider of fixed gas detection and safety monitoring solutions, today announced the release of its new Red Outstation mining / industrial network controller, along with an updated design for its Optio G multi-gas monitor. Both products are designed to support the evolving safety, monitoring, and automation needs of underground mining operations.

The new Red Outstation provides a centralized platform for monitoring and managing connected gas monitors in underground coal mining applications. The non-permissible communication and control device is designed for use in intake air outby the last open crosscut and enables mine personnel to monitor real-time gas conditions while integrating safety monitoring with centralized control and automation systems.

The Red Outstation is approved for underground applications under MSHA requirements and carries PA BOTE approval for use in Pennsylvania bituminous coal mines. It is designed to integrate with Conspec's Optio-based gas detection systems and Senturion S950 SCADA platform, providing mine operators with centralized visibility into connected monitoring equipment.

“Conspec is continuing to invest expanding our mine safety solutions,” said Rob Collins, Conspec Controls’ President / CEO. “We believe the challenges facing mine operators require technology providers that understand the application, understand the environment, and are committed to supporting these systems for the long term. The Red Outstation and updated Optio G are the latest examples of that commitment.”



New battery technology allows the Red Outstation to operate for days without interruption do to power outages.

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Conspec Controls is a leading manufacturer of gas, flame, and heat detection instruments and integrated safety monitoring solutions for commercial HVAC-R, industrial safety, oil & gas, mining, and hazardous applications.

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The new Red Outstation provides a centralized communication and control platform for connected Optio-based multi-gas monitors. Designed for use in intake air outby the last open crosscut, the non-permissible controller enables remote monitoring and management of underground gas detection equipment and can integrate with Conspec’s Senturion S950 SCADA system.

A key enhancement is the Red Outstation’s new battery technology, which provides days of backup operation rather than hours. This extended runtime helps keep the network operational during prolonged power interruptions, maintaining access to critical gas monitoring information when reliable power is unavailable.

The Red Outstation can monitor and manage up to 1,476 sensors across 246 Optio-based multi-gas monitors and supports Modbus RS485, Modbus over Trunk, and Modbus TCP communication. Six onboard relays, remote 4–20 mA outputs, configurable control logic, and local alarming capabilities provide flexibility for ventilation control and other automated responses.

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Alongside the Red Outstation launch, Conspec has also updated the design of its Optio G multi-gas monitor, continuing the company’s investment in its underground monitoring platform.

The Optio G provides real-time atmospheric monitoring and can support up to six sensors for detecting hazardous and combustible gases as well as other mine environmental conditions. The monitor can integrate with Conspec's Senturion S950 SCADA platform and provides relays, 4–20 mA analog outputs, and Modbus RTU communication for monitoring, alarm management, and control applications.

The updated design is intended to provide mine operators with a rugged, flexible monitoring platform that can be configured around the specific conditions and hazards present in underground mining environments.

Together, the Optio G and Red Outstation provide a scalable architecture that can extend from individual monitoring points to mine-wide monitoring and control. The system can provide real-time atmospheric data to operators while supporting automated responses such as alarms and ventilation control.

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The introduction of the Red Outstation and updated Optio G reflects Conspec's ongoing commitment to underground mining. The company has provided gas detection and mine safety solutions for decades, developing technologies designed specifically for the demanding environments found in coal mining and other industrial applications.

As mine operators face increasing demands for real-time visibility, improved system integration, and more efficient responses to changing underground conditions, Conspec continues to invest in products that support those requirements.

"We're not simply maintaining an existing product line," said Collins. "We are continuing to develop the technology and infrastructure that mine operators depend on. Our goal is to remain a trusted safety technology partner for mines that need reliable monitoring, practical engineering support, and a company that will continue to stand behind its products."

The Red Outstation and updated Optio G are available from Conspec Controls. Customers interested in learning more about mine safety solutions are encouraged to contact Conspec Controls at 1-800-487-8450 or visit www.conspec-controls.com to learn more.

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Conspec Controls is a leading manufacturer of gas, flame, and heat detection instruments and integrated safety monitoring solutions for commercial HVAC-R, industrial safety, oil & gas, mining, and hazardous applications. Since 1968, the company has designed and manufactured reliable safety technologies that help protect people, facilities, and critical operations through advanced detection, monitoring, and control systems.

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