Rosemount™ 928 Wireless Gas Monitor

Increase safety in remote and challenging locations with fully integrated wireless toxic and combustible gas monitoring.

EMERSON

Wireless Gas Monitoring Technology Enhances Safety in Challenging Environments

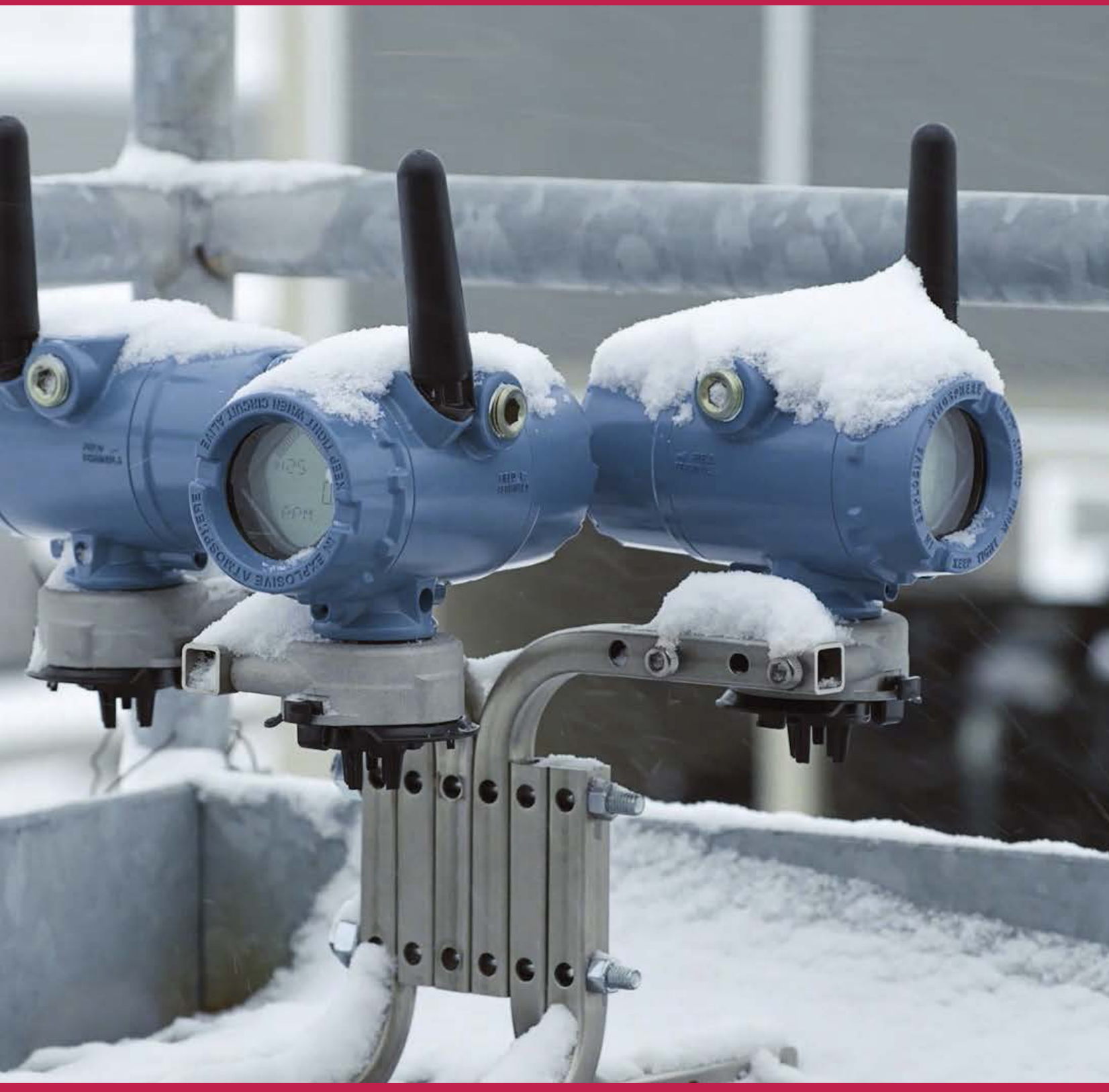
Maintaining remote and under-monitored areas is difficult and dangerous. It is often cost prohibitive to install and operate conventional gas detection systems at these sites. Wireless gas monitoring extends gas leak detection technology to applications too challenging or costly to monitor with traditional technology.

The fatality rate from exposure to harmful environments/ substances was 8.7 percent in the oil & gas industry from 2003-2013.
- The Centers for Disease Control (CDC)

"Fires and explosions were the fourth most common cause for severe injuries, after falls and being struck by objects [in the upstream oil and gas industry]."
- Environment & Energy NEWS

Fires and explosions caused 14.3 percent of fatalities that occurred in the oil and gas extraction industry between 2003-2013.
- The Centers for Disease Control (CDC)

"Leak or break was a factor contributing to ignition for 28 percent of non-home structure fires starting with flammable gas."
- National Fire Protection Association (NFPA)



The Rosemount 928 Wireless Gas Monitor works well in the extreme conditions found in well pad production sites, crude oil tank farms, wastewater treatment facilities, and other harsh environments.

Rosemount 928 Wireless Gas Monitor

Product Overview

The Rosemount 928 Wireless Gas Monitor continuously monitors for the presence of toxic and combustible gases in remote, difficult-to-reach locations. This wireless gas monitoring system enhances worker safety through early gas leak detection and eliminates the need for expensive wiring. Device approvals include Intrinsically Safe, CSA Division 1, and ATEX/IECEx Zone 0.

Features:

- Universal transmitter
- Simple *Wireless*HART® network integration
- Extended battery life
- Wide operating temperature range
- Intuitive local indicator
- Tool-less battery and sensor replacement
- Hot-swappable power module

Emerson.com/Rosemount928

What's your challenge?

Conventional wired gas detectors can be expensive to implement in remote locations that require high costs of installing wiring for power and communication.

What's your opportunity?

You can eliminate expensive wiring by installing a wireless gas monitor instead of a traditional wired fixed point gas detector. This would save you an estimated 60 percent in initial equipment installation cost and 90 percent in upfront installation labor cost.

Rosemount 628 Universal Gas Sensor

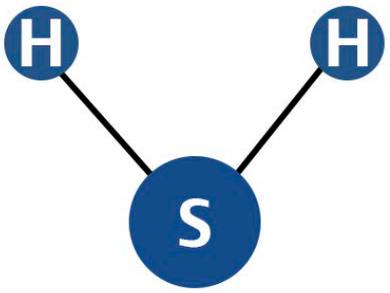
The Rosemount 628 Universal Gas Sensor easily connects to the Rosemount 928 Wireless Gas Monitor. Gas sensor types include hydrogen sulfide (H2S), carbon monoxide (CO), and oxygen depletion (O2).

Features:

- Tool-less hot-swappable smart sensor
- Lab calibration reduces labor costs
- Suitable for use in harsh environments
- Quick connect design

Emerson.com/Rosemount628

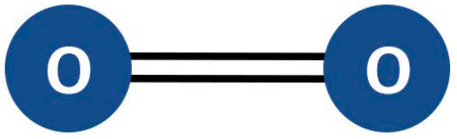
Hydrogen Sulfide (H_2S) Monitoring



100 ppm

According to the Occupational Safety and Health Administration (OSHA), a level of H_2S gas at or above 100 ppm is Immediately Dangerous to Life and Health (IDLH).

Oxygen Depletion (O_2) Monitoring



19.5 %

According to OSHA, an oxygen concentration less than 19.5 percent O_2 by volume is IDLH.

Carbon Monoxide (CO) Monitoring

1500 ppm

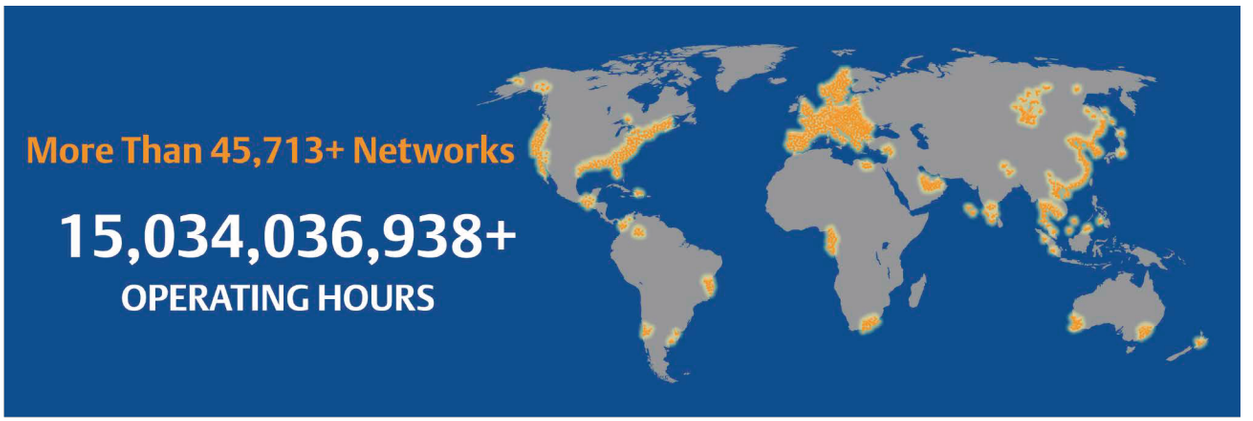
According to OSHA, a level of CO gas at or above 1,500 ppm is IDLH.

Specifications

	H_2S	O_2 Depletion	CO
Operating Temperature	-40 °F to +122 °F (-40 °C to +50 °C)	-22 °F to +122 °F (-30 °C to +50 °C)	-22 °F to +122 °F (-30 °C to +50 °C)
Accuracy	± 3 ppm or 10 % of reading, whichever is greater	± 0.5 % oxygen content of supply gas	± 6 ppm or 10 % of reading, whichever is greater
Gas Concentration Level	0-100 ppm range	0-25 % by volume	0-1,000 ppm range
Time Constant / Response T90	< 45 seconds	< 15 seconds	< 29 seconds
Relative Humidity Range	10-95 %	5-95 %	10-95 %
Update Rate	1 second to 60 minutes, user selectable		
Power Supply	Replaceable, intrinsically safe lithium thionyl chloride power module with polybutylene terephthalate (PBT) enclosure		
Antenna Type	PBT/polycarbonate (PC) alloy integrated omnidirectional antenna		
Enclosure Rating	IP66 ingress protection (IP) filter		
Housing Material	Low-copper aluminum (A360) or stainless steel CF-8M (Cast 316 SST)		
Certifications / Approvals	Intrinsically Safe, CSA Div 1 ANSI/ISA 92.00-2010 (R2015), ATEX/IECEx Zone 0		
Outputs	IEC 62591 *Wireless*HART 2.4GHz DSSS. Optional discrete output to support local alarms		

Secure, Reliable Networks from the Wireless

With thousands of networks installed worldwide, Emerson is the leader in integrating *Wireless*HART technology. The Rosemount 928 Wireless Gas Monitor is part of Emerson's Plantweb™ digital ecosystem, delivering actionable insight through interpretation of information gathered via wireless devices. The Rosemount 928 can be deployed in minutes and easily integrates into existing *Wireless*HART networks. As threats in your facility change, simply adjust the location of wireless gas monitors for increased application flexibility.



Extends toxic and combustible gas coverage to applications previously too challenging and costly to monitor.

Emerson.com
Facebook.com/EmersonAutomationSolutions
LinkedIn.com/company/Emerson-Automation-Solutions
Twitter.com/Emerson_News

00803-0100-4928 Rev AD, December 2024

ROSEMOUNT™

EMERSON™