

# ROSEMOUNT™ 925FGD FIXED GAS DETECTOR

Continuous combustible gas detection to keep your personnel and assets safe

## Introduction

The Rosemount™ 925FGD Gas Detector comes with the quality and reliability you expect from Emerson. As the first Rosemount designed and engineered point gas detector, take confidence in high performance gas leak detection for accuracy, response time, operating temperature ranges and zero drift specifications.

Using non-dispersive infrared (IR) technology, the Rosemount 925FGD Gas Detector provides early combustible gas leak detection within your processes, helping to keep your workers safe while helping to reduce greenhouse gas emissions.



*The Rosemount 925FGD Gas Detector is certified to SIL2, ATEX, Canada, US and IECEx safety standards.*

## Advanced Local Operator Interface (LOI)

- Simple, intuitive touch screen with no magnets
- Displays real-time gas level in %LEL
- Enables calibration and maintenance without additional tools

## Smart Sensor Module

- Pre-calibrated sensor easily connects to the transmitter and can be factory calibrated to butane, propane, methane, ethylene, or ethane
- Can be calibrated off-site and installed later
- Sensors retain their own configuration settings and calibration information
- Reduced maintenance costs and downtime with longer calibration intervals

## Built for Extreme Environments

- Approved to the latest hazardous area and performance standards for worldwide use
- Designed to operate in ambient temperatures ranging from -40 to 158 °F (-40 to 70 °C)
- Achieves ingress protection levels of IP66



*The Rosemount 905 Junction Box remote mount option allows the sensor to be positioned for optimal detection while the transmitter is located for easy access.*

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## Early combustible gas leak detection

| Specifications                        |  |
|---------------------------------------|--|
| <b>Measurement Type</b>               | Hydrocarbon gases: 0–100% LEL  |
| <b>Sensor Type</b>                    | Rosemount 625 non-dispersive infrared sensor   |
| <b>Outputs</b>                        | 4–20 mA with HART® 7 Protocol, Relays  |
| <b>Humidity Limits</b>                | 0–95% at 52 °C   |
| <b>Local Operator Interface (LOI)</b> | Integral LOI displays alert state and diagnostic information   |
| <b>Input Power Requirements</b>       | Power supply range: 18 to 30 VDC<br>Max power consumption: 2.4 W   |
| <b>Enclosure</b>                      | Housing: low-copper aluminum or stainless steel; Paint: polyurethane; Cover O-Ring: Buna-A   |
| <b>Enclosure Rating</b>               | NEMA 4X and IP66   |
| <b>Sensor Mounting</b>                | Direct<br>Optional remote with Rosemount 905 Junction Box  |
| <b>Operating Temperature</b>          | Standard: -40 to 158 °F (-40 to 70 °C)<br>With heater on: -67 to 167 °F (-55 to 75 °C)   |
| <b>Storage Temperature</b>            | -40 to 167 °F (-40 to 75 °C)   |
| <b>Weight</b>                         | 925 aluminum transmitter: 6.3 lb (2.9 kg)<br>925 stainless steel transmitter: 11.1 lb (5.1 kg)<br>625ND aluminum sensor: 1.3 lb (0.6 kg)<br>625ND stainless steel sensor: 2.7 lb (1.2 kg)<br>625ND sensor replacement module: 0.5 lb (0.2 kg)<br>905 aluminum junction box: 2.7 lb (1.2 kg)<br>905 stainless steel junction box: 5.9 lb (2.7 kg) |
| <b>Accuracy</b>                       | Gas accuracy (includes ambient temperature effects): ±3% LEL < 50% LEL and ±5% LEL > 50% LEL   |
| <b>Warranty</b>                       | Three year limited warranty on Rosemount 925 transmitter and Rosemount 625ND sensor  |
| <b>Certifications</b>                 | SIL 2 (IEC 61508)<br>North American<br>Class I, Division 1, GP B, C, D T5<br>Class I, Zone 1 AEx/Ex db IIC T5 Gb<br>Class II, Division 2, GP F, G T85C<br>ATEX<br>II 3D Ex tc IIIC T85C Dc<br>II 2G Ex db IIC T5 Gb<br>IECEX<br>Ex db IIC T5 Gb<br>Ex tc IIIC T85C Dc  |

\*See product data sheet for full specifications.

For more information, visit  
[Emerson.com/FlameGasDetection](https://www.emerson.com/FlameGasDetection)

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