

# Model SA2-R32 (Refrigerant) Smart Sensor Modules



## Description

Model SA2-R32 smart sensor modules are designed to detect and monitor refrigerant R32 in ambient air. The modules consist of a non-dispersive infrared gas detection sensor and a micro-processor-based signal conditioning circuit. The signal conditioning circuits includes embedded temperature compensation and advanced detection analytics. Both are housed in a metallic enclosure fitted with gold plated connecting pins. The “Smart Sensor Module” is factory programmed for a specific range of sensitivity. On power up gas type, measurement range and previous zero and span calibration data points are read by the transmitter facilitating a fully automated startup. When used with any of Safeguard Analytics gas detection transmitters calibration may be performed on site or remotely and transported to the point of installation pre-calibrated and ready for operation.

## Specifications <sup>1</sup>

<b>Sensor Technology</b>	Non-Dispersive Infrared	<b>Input Voltage (Direct)</b>	3 to 5.0 VDC
<b>Detection Method</b>	Diffusion	<b>Power Consumption</b>	< 50 milliwatts
<b>Sensitivity Options</b>	15%	<b>Signal Output</b>	I <sup>2</sup> C Protocol
<b>Response Time</b>	T50 < 10s T90 < 30s	<b>Temperature Range</b>	-40°C to +70°C
<b>Accuracy</b>	± 2% of full scale	<b>Humidity Range</b>	0% to 90% non-condensing
<b>Zero Baseline Shift</b>	< 1% of full scale	<b>Pressure Range</b>	1 atmosphere ± .1 atm
<b>Span Drift</b>	< 2% signal loss per month	<b>Warranty</b>	5 Years

<sup>1</sup>Specifications subject to change without notice.

\*Power consumption is sensor dependent

## Order Guide

**Model SA2-R32-015** 0-15.0 % (0.2 % MDL)