

**SAMON**  
safe monitoring



# GLACIÄR X5

**SIMPLY RELIABLE REFRIGERANT GAS DETECTORS**

[www.samon.com](http://www.samon.com)



# GLACIÄR X5

Engineered to work in the most demanding refrigeration environments, the **GLACIÄR X5** stands out with its cutting-edge single and dual-sensor technology. It delivers unmatched accuracy in detecting industrial refrigerants, and features a revolutionary NH<sub>3</sub> sensor, designed to last an impressive five years, even amidst constant background NH<sub>3</sub> levels.

Robust and heavy-duty, the **GLACIÄR X5** is your trusted partner for sustained industrial safety and efficiency. Elevate your safety standards with **GLACIÄR X5** – where innovation meets endurance.

## REVOLUTION IN NH<sub>3</sub> REFRIGERANT DETECTION

Our ionic NH<sub>3</sub> refrigerant gas sensor offers extended lifespan and immunity to NH<sub>3</sub> saturation, ensuring reliable performance in any environment. Its dual-sensor design enables flexible gas measurement options, eliminating the need for multiple detectors. Examples include different NH<sub>3</sub> ranges for toxicity and flammability detection, or simultaneous detection of NH<sub>3</sub> and CO<sub>2</sub>. Experience advanced durability and versatility in gas sensing technology.



## PROVEN RELIABILITY

The ionic NH<sub>3</sub> sensor operates reliably in environments with constant background NH<sub>3</sub> levels. It offers a 5-year lifespan reducing replacement needs and false alarms, resulting in cost savings. **SAMON** has been manufacturing refrigerant gas detectors since 1990, building the experience to deliver high reliability in refrigeration gas detection applications.



## SENSOR SELECTION

- Single & dual sensor option.
- Long-life electrochemical sensor for NH<sub>3</sub> detection\*.
- CO<sub>2</sub> detection via infra-red sensor.
- Infrared or catalytic sensor for R290.
- Semiconductor and/or infrared sensor for HFC, HFO, & A2L refrigerants.

## QUICK & EASY CONFIGURATION & MAINTENANCE

- Combine locally mounted sensors and remote sensors.
- Non-intrusive calibration via magnetic wand.
- Visual health-check via digital display.
- Easy plug-replaceable sensor replacement.

\*) NH<sub>3</sub> 0-100ppm, 0-500ppm, 0-5000ppm



# THE SIMPLY RELIABLE REFRIGERANT GAS DETECTOR

Protect the environment, protect people, protect property

More information  
about **GLACIÄR X5**



## CONVENIENT & SIMPLE

Our refrigerant gas detector simplifies complex tasks, offering single or dual-sensor options and simple set-up. Non-intrusive operation via magnetic wand enables calibration and configuration without the requirement for hot-work permits. Installation is made easy with the 5-port housing, streamlining setup, even when multiple cables are involved.



## HIGH DURABILITY

The **GLACIÄR X5** refrigerant detector, housed in a robust IP66-rated aluminium enclosure, is built to withstand the demanding conditions of industrial refrigeration environments. With a five-year lifespan, our ionic NH<sub>3</sub> sensor outlasts typical EC sensors, ensuring long-term reliability and reduced replacement frequency. Certified for use in EX zones, our product can be safely employed in potentially explosive atmospheres to ensure compliance in hazardous environments.

## MULTIPLE OUTPUTS

- Digital display showing concentration, alarms and fault status.
- 2 x independent 4-20mA outputs.
- 2 x alarm relays.
- Dedicated fault relay.

## EASY INSTALLATION

- Multiple cable glands located for easy access to power connections & output terminals.
- IP66-rated enclosure & -20°C - +55°C operating range suitable for refrigeration environments.
- Simple mounting.

# TECHNICAL DATA



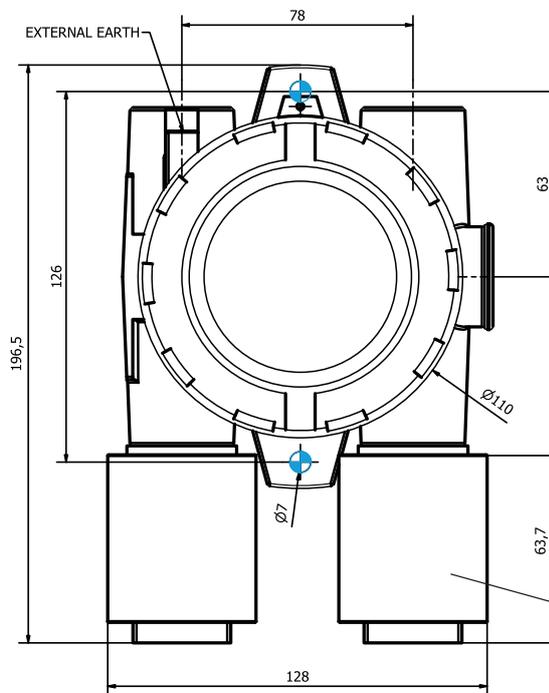
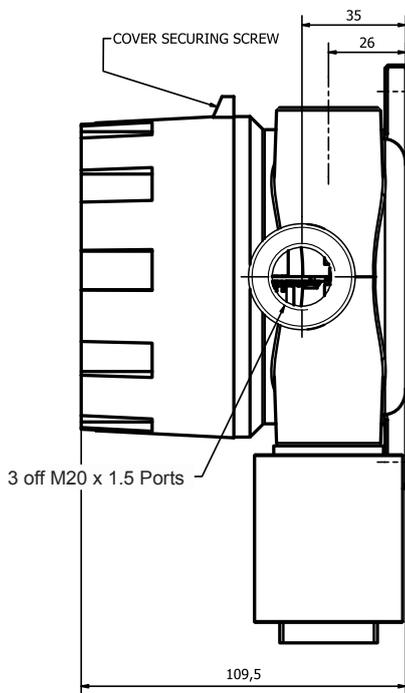
<b>Power</b>	18 to 30V DC
<b>Electrical Outputs</b>	2 x independent 4-20mA outputs auto ranged to suit fitted detector(s) 1 x Single Pole Fault Relay 2 x SPCO Alarm Relays Relays 4A at 24V DC Non Inductive Aux Power Connection 0.5A Max
<b>JB Housing Material</b>	Junction Box, Copper Free Aluminium Alloy Epoxy Coated Option for Marine Paint Finishes
<b>Sensor Housing Material</b>	Sensor, Stainless Steel 316 S16
<b>Explosion Protection</b>	Junction Box, EEx d IIC T6 I I2 D G
<b>Housing Dimensions (mm)</b>	See Drawing
<b>Cable Entry</b>	5 x M20 x 1.5 (See Drawing)
<b>Temperature</b>	-20°C to +55°C / -4°F to 131°F
<b>Humidity</b>	20-90% RH Non-Condensing
<b>Sealing</b>	IP66
<b>Mounting</b>	Wall Mount
<b>Weight</b>	1.1 kg / 38.8 oz (Plus Fitted Detectors)



**JB3/903**  
 II 2G Ex db IIC T6/T5 Gb  
 II 2D Ex tb IIIC T85°C/ T100°C Db  
 Ta = -20°C to +40°C/+55°C  
 IECEx EXV 16.0002X  
 ExVeritas 16 ATEX 0140X  
 ExVeritas 21 UKEX0913X  
 IP66  
 M20 x 1.5 Entries 12-32V DC  
 Compliant to IEC 60079-29-1



**102 Series Detector**  
 II 2G Ex db IIC T6 Gb  
 II 2D Ex tb IIIC T85°C Db  
 Ta = -20°C to +40°C  
 II 2G Ex db IIC T5 Gb  
 II 2D Ex tb IIIC T100°C Db  
 Ta = -20°C to +55°C  
 Rating 12-32VDC 2W  
 IECEx EXV16.0003X  
 ExVeritas 16ATEX0141X  
 ExVeritas 21 UKEX0914X



Manufactured by:  
IGD Ltd., Stockport UK

Part of Safe Monitoring Group

Fit up to 2  
Gas Detectors  
to M20 x 1.5 Ports  
See Options

## Applicable standards

Directives	Standards
(EMC) 2014/30/EC	IEC 60079-0:2017 7th Edition EN 60068-2-6
(ATEX) 2014/34/EU	IEC 60079-29-1:2016 2nd Edition EN 50271
	IEC 60079-1 IEC 61010-1:2010 +A1:2016
	EN 50270 IEC 61010-1:2010 +A1:2019
	IEC 60529



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