# SAMON
## safe monitoring

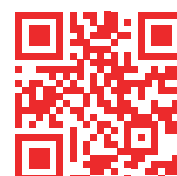NH3
0.0 PPM

GLACIÄR
**X5**

NH3
0.0 PPM

GLACIÄR
**X5**

# GLACIÄR
# X5

## SIMPLY RELIABLE REFRIGERANT GAS DETECTORS

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# 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 $NH_3$ sensor, designed to last an impressive five years, even amidst constant background $NH_3$ 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 $NH_3$ REFRIGERANT DETECTION

Our ionic $NH_3$ refrigerant gas sensor offers extended lifespan and immunity to $NH_3$ 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 $NH_3$ ranges for toxicity and flammability detection, or simultaneous detection of $NH_3$ and $CO_2$. Experience advanced durability and versatility in gas sensing technology.

## PROVEN RELIABILITY

The ionic $NH_3$ sensor operates reliably in environments with constant background $NH_3$ 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 $NH_3$ detection*.

- $CO_2$ detection via infra-red sensor.

- Infrared or catalytic sensor for R290.

- Semiconductor and/or infrared sensor for HFC, HFO, & A2L refrigerants.

*) $NH_3$ 0-100ppm, 0-500ppm, 0-5000ppm

## 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.

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# 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 $NH_3$ 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.

**SAMON**
safe monitoring

# TECHNICAL DATA

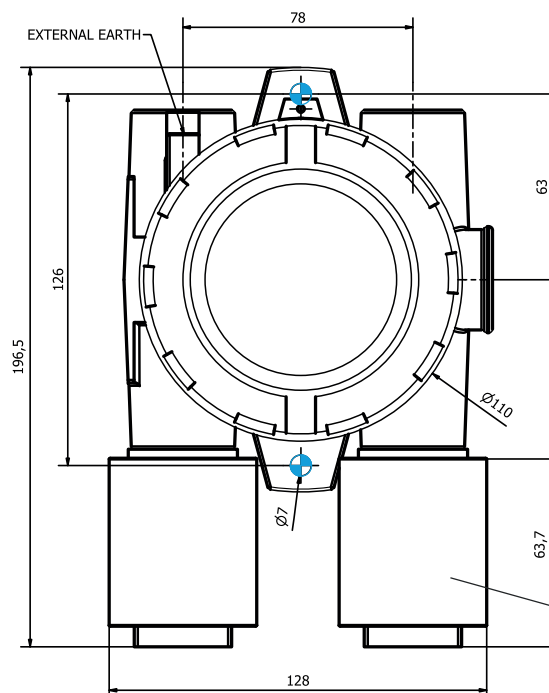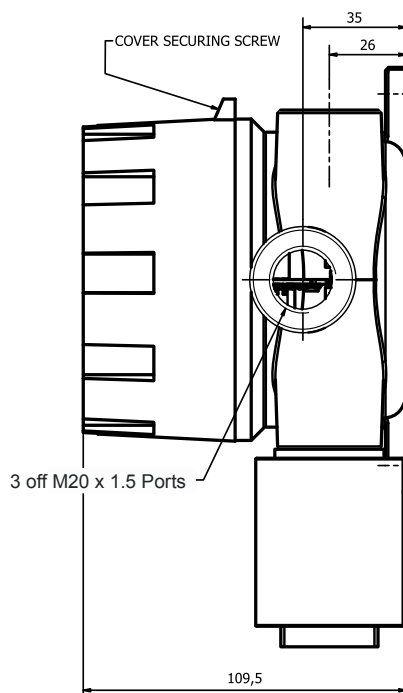| | |
|---|---|
| **Power** | 18 to 30V DC |
| **Electrical Outputs** | 2 x independent 4-20mA outputs auto ranged to suit fitted detector(s)<br>1 x Single Pole Fault Relay<br>2 x SPCO Alarm Relays<br>Relays 4A at 24V DC Non Inductive<br>Aux Power Connection 0.5A Max |
| **JB Housing Material** | Junction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

CE 2804  UKCA 2585

Ex / IEC

**JB3/903**
II 2G Ex db IIC T6/T5 Gb
II 2D Ex tb IIIC T85ºC/ T100ºC Db
Ta = -20ºC to +40ºC/+55ºC
IECEx EXV 16.0002X
ExVeritas 16 ATEX 0140X
ExVeritas 21UKEX0913X
IP66
M20 x 1.5 Entries  12-32V DC
Compliant to IEC 60079-29-1

Ex / IEC

**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 21UKEX0914X

Manufactured by:
IGD ltd., Stockport UK

*Part of Safe Monitoring Group*



COVER SECURING SCREW
35
26
3 off M20 x 1.5 Ports
109,5

EXTERNAL EARTH
78
63
126
196,5
Ø110
Ø7
63,7
128
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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