

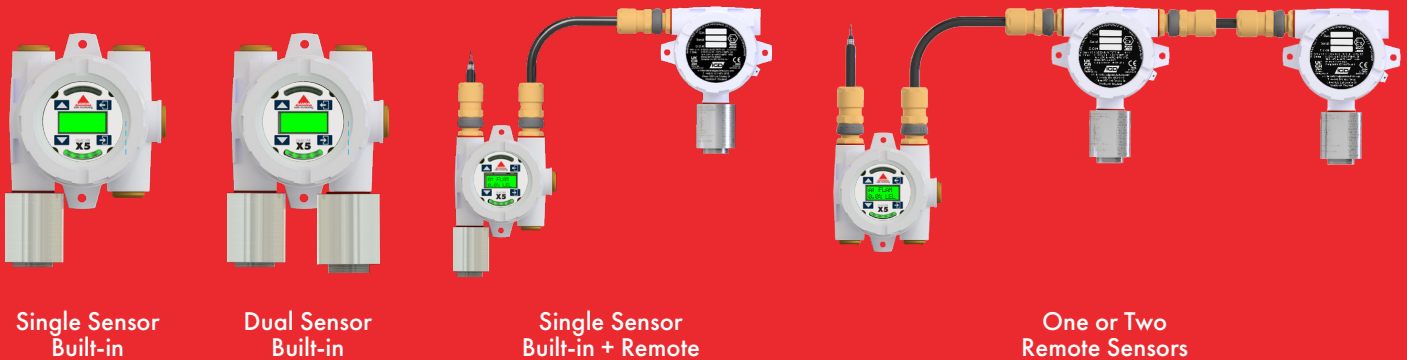
GLACIÄR X5

Industrial Refrigerant Gas Detector



- Single & dual sensor option
- Long-life electrochemical sensor for NH₃ detection
- CO₂ detection via infra-red sensor
- Infrared or catalytic sensor for R290
- Infrared sensor for HFC, HFO & A2L refrigerants
- Combine built-in and remote sensors
- Non-intrusive calibration via magnetic wand
- Visual health-check via digital display
- Easy plug-replaceable sensor replacement
- Digital display showing concentration, alarms and fault status
- 2 x independent 4-20mA outputs
- 2 x alarm relays
- Dedicated fault relay
- IP66-rated enclosure

Multiple Configurations Available



Single Sensor
Built-in

Dual Sensor
Built-in

Single Sensor
Built-in + Remote

One or Two
Remote Sensors



SIMPLY RELIABLE REFRIGERANT GAS DETECTORS

www.samon.com

Part of **safe monitoring group**

Article No.	Model	Details	PG
Single Sensor: Built-in			
3501-0001	GLACIÄR X5 Fixed NH ₃ 5000	ATEX, IONIC NH ₃ 0-5000ppm	G
3501-0002	GLACIÄR X5 Fixed R404A 2000	ATEX, IR R404A 0-2000ppm	G
3501-0005	GLACIÄR X5 Fixed Ethanol 0-100% LEL	ATEX, IR Solvent	G
3501-0006	GLACIÄR X5 Fixed NH ₃ 1000	ATEX, IONIC NH ₃ 0-1000ppm	G
3501-0007	GLACIÄR X5 Fixed R290 100% LEL IR	ATEX, IR, R290 0-100% LEL	G
3501-0009	GLACIÄR X5 Fixed NH ₃ 100	ATEX, IONIC NH ₃ 0-100ppm	G
3501-0010	GLACIÄR X5 Fixed CO ₂ 5% Vol	ATEX, IR CO ₂ 0-5% Vol	G
Dual Sensor: Built-in			
3502-0002	GLACIÄR X5 NH ₃ 5000 & NH ₃ 500	ATEX, IONIC NH ₃ 0-5000ppm & 0-500ppm	G
3502-0005	GLACIÄR X5 NH ₃ 1000 & NH ₃ 100% cc	ATEX, IONIC NH ₃ 0-1000ppm & Pellister NH ₃ 0-100% LEL	G
3502-0006	GLACIÄR X5 NH ₃ 100 & NH ₃ 100% cc	ATEX, IONIC NH ₃ 0-100ppm & Pellister NH ₃ 0-100%LEL	G
3502-0007	GLACIÄR X5 CO ₂ 5% & R290 100% IR	ATEX, IR CO ₂ 0-5% VOL & IR R290 0-100% LEL	G
3502-0008	GLACIÄR X5 CO ₂ 5% & R1234yf 2000	ATEX, IR CO ₂ 0-5% VOL & IR R1234yf 0-2000ppm	G
Dual Sensor: Built-in + Remote			
3503-0001	GLACIÄR X5 Fixed&Remote NH ₃ 5000 & NH ₃ 5000R	ATEX, Fixed IONIC NH ₃ 0-5000ppm & Remote IONIC NH ₃ 0-5000ppm	G
Single Sensor: Remote			
3504-0001	GLACIÄR X5 Remote NH ₃ 1000	ATEX, IONIC NH ₃ 0-1000ppm	G
3504-0002	GLACIÄR X5 Remote CO ₂ 5000	ATEX, IR, CO ₂ 0-5000ppm	G
3504-0003	GLACIÄR X5 Remote NH ₃ 5000	ATEX, IONIC NH ₃ 0-5000ppm	G
Dual Sensor: Remote			
3505-0001	GLACIÄR X5 Remote NH ₃ 1000 R & NH ₃ 1000 R	ATEX, IONIC NH ₃ 0-1000ppm Remote & NH ₃ 0-1000ppm Remote	G

The sensor combinations listed above represent a selection of our offerings.

Additional combinations are available.

Please contact one of our experts for more information.

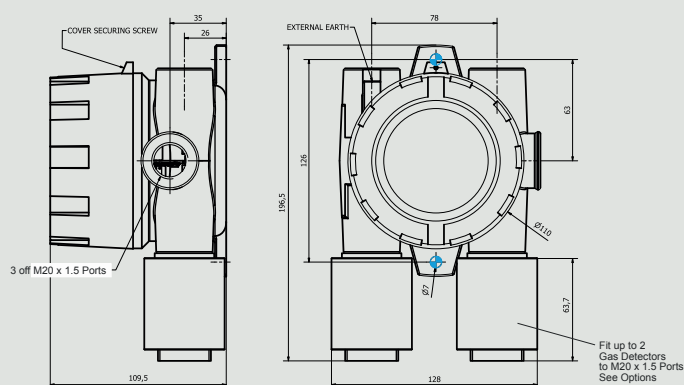
Article No.	Model	Details	PG
Accessories			
3500-0085	GLACIÄR X5 Sun Shade	Sun Shade for X5	G
3500-0088	GLACIÄR X5 Gas Collector Cone	Gas Collector Cone for X5	G
3500-0089	GLACIÄR X5 Protection Filter Disk	Protection Filter Disk for X5	G
3500-0090	GLACIÄR X5 ATEX Splash Guard	ATEX Splash Guard for X5	G
3500-0110	GLACIÄR X5 Pipe Adapter kit	1 x Type 5 Duct adapter, 1 x Pole Clamp, 1 x Pipe Adaptor & Silencer	G
3500-0094	GLACIÄR X5 Calibration Kit	1 x ATEX Calibration Adapter, 1 x MK5/6 Calibration Adapter, 1 x TOC-30/TOC-750 Calibration Adapter, 1 x Bottle Regulator, 1 x Test Leads, 1 x Carry case, 1 x Neoprene Tubing	G

For more accessories see www.samon.com

GLACIÄR X5 TECHNICAL DATA



Power	18 to 30V DC
Electrical Outputs	2 off independent 4-20mA outputs auto ranged to suit fitted detector(s) 1 Single Pole Fault Relay 2 SPCO Alarm Relays Relays 4A at 24V DC Non Inductive Aux Power Connection 0.5A Max
JB Housing Material	Junction Box, Copper Free Aluminium Alloy Epoxy Coated 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 Below
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
Pressure	800-1200mBar
Air Flow	Max 6m/s, Air flows should not be directly to the sensor face
Sealing	IP66
Mounting	Wall Mount
Weight	1.1 kg / 38.8 oz (Plus Fitted Detectors)



JB3/3500-0001

(GLACIÄR X5)
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 21UKEX0913X
FTZU 23 ATEX 0095
IECEx FTZU 24.0005
IP66
M20 x 1.5 Entries 12-32V DC
IEC/EN 60079-29-1

3500-XXXX Series Detector

(Remote Sensor)
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
FTZU 23 ATEX 0095
IECEx FTZU 24.0005
IEC/EN 60079-29-1

PLEASE FOLLOW THE ORDERING INSTRUCTIONS AS PER CONFIGURATION SHEET.

THE ORDERING PARTY MUST BE FAMILIAR WITH AN ATEX ENVIRONMENT INSTALLATION.

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	

