



# GLACIÄR MIDI

**RILEVATORI DI GAS REFRIGERANTI  
SEMPLICEMENTE AFFIDABILI**

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



# GLACIÄR MIDI

**GLACIÄR MIDI** rileva perdite di gas refrigeranti dannosi per l'ambiente in cui viviamo e dannosi per gli ambienti in cui lavorano le persone. Riducendo queste perdite, il nostro pianeta è protetto dalle emissioni di gas serra, i nostri colleghi rimangono in salute e la proprietà è protetta contro i rischi di guasto del sistema ed esplosione.

**R** può essere configurato per il rilevamento di refrigeranti sintetici (miscele HFC e HFO), refrigeranti naturali inclusi CO<sub>2</sub>, NH<sub>3</sub> e R290 (propano) e altri gas di idrocarburi. Abbiamo utilizzato la nostra vasta esperienza nel rilevamento dei gas per rendere possibile il monitoraggio di tutti i refrigeranti comunemente utilizzati con solo 5 diversi tipi di sensori, rendendo semplice e facile la selezione del rilevatore maggiormente adatto alla vostra applicazione.



## SYSTEMS INTEGRATION

A range of connectivity choices are available for integration of **GLACIÄR MIDI** into refrigeration control systems and/or building management systems. Modbus, analogue output, and relay contacts are available as standard. Installation is made easy by the availability of multiple cable glands located for easy access.



## SENSOR SELECTION

- All sensor types compatible with the **GLACIÄR MIDI** detector platform
- HFC/HFO blends detected via just two broad-band sensor variants
- CO<sub>2</sub> detection via infra-red sensor
- Electrochemical sensors for NH<sub>3</sub> detection
- R290 (propane) & hydrocarbon sensor

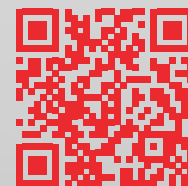
## EASY INSTALLATION

- Comes ready to install with standard configuration
- Multiple cable glands located for easy access to power connections & output terminals
- Pluggable screw terminals for simple installation on site
- IP67-rated enclosure & -40°C - + 50°C operating range suitable for all refrigeration environments

# THE SIMPLY RELIABLE REFRIGERANT GAS DETECTOR

Protect the environment, protect people, protect property

More information  
about **GLACIÄR MIDI**



## DESIGNED WITH YOU IN MIND

SAMON has drawn on over 30 years' experience in the refrigeration industry to design a gas detector to meet the needs of every user. Providing interfaces for set-up, configuration, and maintenance via both a digital app connection and via an analogue service-wheel, **GLACIÄR MIDI** can be used in all refrigeration environments without the need for any special tools.



## RELIABLE PERFORMANCE

SAMON products have a warranty rate of less than 0.001% - we understand how important reliability is to our customers and build it into everything we do. **GLACIÄR MIDI** is designed to be robust and reliable in machinery rooms, cold rooms, and the harshest of industrial refrigeration applications.

## MULTIPLE CONFIGURABLE OUTPUTS

- Alarm indication via relay contacts for high- and low-alarm levels
- Interface to control systems via Modbus RTU over RS485 & selectable analogue output range
- Visual health-check via high-intensity status LEDs
- Selectable dedicated fault relay

## INTELLIGENT SERVICE & MAINTENANCE

- Service counter tells you when service is needed
- Bluetooth® connectivity to app for configuration & calibration (Android™ & iOS)
- Analogue configuration via service-wheel & magnetic switch
- Pre-calibrated sensor module replacements
- Sensor lifetime counter

# TECHNICAL DATA



Analogue Output	
Selectable analogue output range	0...5V; 1...5V; 0...10V; 2...10V; 4...20mA (default)
Modbus RTU over RS-485	
Connection	Galvanically isolated (optocoupler)
Baud rate	9,600 or 19,200 (default)
Data bits	8
Parity	None (default), odd, even
Stop bits	1 or 2 (default)
Other Interfaces	
Visible indicator	Multi-color Status LED
Bluetooth®	BLE (Service app)
Relays	2 SPDT 1 A at 24 VAC/VDC, resistive load
Switches	Service wheel (x1) and Magnetic (x1)
Analogue service output	0-10VDC
Power Supply	
Operating voltage	15 to 24 VDC; 24 V AC/DC, 50/60 Hz (Selected automatically)
Operating effect and current, max.	4W, 170mA @ 24VDC
Wiring	
Power supply	28 to 16 AWG / 0.75 mm <sup>2</sup> to 1.5 mm <sup>2</sup>
Analogue signals and relays	28 to 16 AWG / 0.75 mm <sup>2</sup> to 1,5 mm <sup>2</sup>
Modbus network	3-core, 2 twisted pair + ground, shielded cable with 120 Ω characteristic impedance, 24 to 16 AWG / 0.25 mm <sup>2</sup> to 1.5 mm <sup>2</sup> , maximum length 300 meters.
Cable gland	4 x M16, 4-8mm cable outer diameter
Cable rating	UL 2556 VW-1 or equivalent
Dimensions	
Enclosure Size (W×H×D)	Built-In: 134x102x54 mm Remote, main enclosure: 134x102x54 mm Remote, sensor enclosure: 103x50 mm
Weight	Built-In: 430 g Remote: 660 g
Environmental	
Operating temperature	-40° to 50° Celsius
Storage temperature	-40° to 50° Celsius
Humidity	5 to 90 %RH, non-condensing
Enclosure protection	IP67
Enclosure material	Polycarbonate

## Applicable standards

Directives	Standards
(EMC) 2014/30/EU	EN 61010-1 IEC 60529
(LVD) 2014/35/EU	EN 378 IEC 60355-2-40,
(RED) 2014/53/EU	EN 14624 Annex LL (Pending)
	EN 50270
	EN 50271

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