

# ▶ GLACIÄR MIDI

Refrigerant gas detectors (HFO, HFC, HC, CO2 & NH3)



## Product description

The **GLACIÄR MIDI** range of refrigerant gas detectors has been specifically designed for refrigeration applications in unclassified areas. It covers a wide range of synthetic refrigerants such as HFO or HFC blends, propane (R290), ammonia (NH3), and CO2 (carbon dioxide).

With a high degree of protection (IP67), the waterproof and dustproof **GLACIÄR MIDI** is particularly suitable for the control and monitoring of chillers, cold stores and freezers, HVAC ventilation and air-conditioning systems, refrigeration compressor groups, etc. The CO2 version is also popular in the wine-growing and brewing sectors.

Equipped with two alarm relays for servo-controls, visual status indication via LED, a digital output (RS485 Modbus RTU), and selectable analog outputs (4-20 mA, 1-5V, 0-10V), **GLACIÄR MIDI** is a refrigerant gas detector that can be used locally in stand-alone mode, or connected to a data logger or supervision system.

**GLACIÄR MIDI** stand-alone detectors feature broadband sensors with a reference gas, offering the significant advantage of answering to most refrigerant gases with only five reference gases. They detect **HFO** R1234yf or R1234ze (R32), **HFC** (R134A), **HCFC**, **hydrocarbons** (R290), **NH3** (ammonia), and **CO2** (carbon dioxide).



Thanks to the **SAMON GLACIÄR app** (compatible with Android and iOS), users can intuitively operate and maintain their refrigerant gas detection system without training or specialized tools.

## Technical specifications

**Supply voltage:** 15-24 Vac/Vdc (auto selection)

**Cells:** Temperature-compensated pre-calibrated probes

**Status indicator:** High-intensity LED

**Relay output:** 2 configurable SPDT relays 1A/24Vdc (resistive load)

**Analog output:** 1-5V, 0-10V, 2-10V, 4-20mA (default)

**Digital communication:** RS485 Modbus RTU

**Parameter setting:** Bluetooth via SAMON GLACIÄR app or by switch

**Dimensions:** 134 x 102 x 54 mm / **Weight:** 430 grams

**Ingress rating:** IP67 / Polycarbonate housing

## Model selection

Freons	Refering gas	Measuring scale	Technology
R1150	R290	0-4000 ppm	semiconductor
R1233zde	R134a	0-1000 ppm	semiconductor
R1234yf	R134a	0-1000 ppm	semiconductor
R1234ze	R134a	0-1000 ppm	semiconductor
R1270	R290	0-4000 ppm	semiconductor
R134a	R134a	0-1000 ppm	semiconductor
R22	R134a	0-1000 ppm	semiconductor
R290	R290	0-4000 ppm	semiconductor
R32	R32	0-1000 ppm	semiconductor
R404A	R134a	0-1000 ppm	semiconductor
R407A	R32	0-1000 ppm	semiconductor
R407C	R32	0-1000 ppm	semiconductor
R407F	R32	0-1000 ppm	semiconductor
R410A	R32	0-1000 ppm	semiconductor
R448A	R32	0-1000 ppm	semiconductor
R449A	R32	0-1000 ppm	semiconductor
R450A	R134a	0-1000 ppm	semiconductor
R452A	R32	0-1000 ppm	semiconductor
R452B	R32	0-1000 ppm	semiconductor
R454A	R32	0-1000 ppm	semiconductor
R454B	R32	0-1000 ppm	semiconductor
R454C	R32	0-1000 ppm	semiconductor
R455A	R32	0-1000 ppm	semiconductor
R464A	R32	0-1000 ppm	semiconductor
R465A	R32	0-1000 ppm	semiconductor
R466A	R32	0-1000 ppm	semiconductor
R468A	R32	0-1000 ppm	semiconductor
R50	R290	0-4000 ppm	semiconductor
R507A	R32	0-1000 ppm	semiconductor
R513A	R134a	0-1000 ppm	semiconductor
R515B	R134a	0-1000 ppm	semiconductor
R600A	R290	0-4000 ppm	semiconductor
R717 (NH3)	NH3	0-100 ppm	electrochemical
R744 (CO2)	CO2	0-10000 ppm	infrared