



Leak detection

ROOM CONTROLLER



Photo non-contractuelle

GLACIÄR MIDI fixed leak detector

The **GLACIÄR MIDI** room controller is a refrigerant leak detector for all air-conditioning and refrigeration systems.

The **GLACIÄR MIDI** room controller is available in two versions : 1 with integrated sensor and 1 with remote sensor.

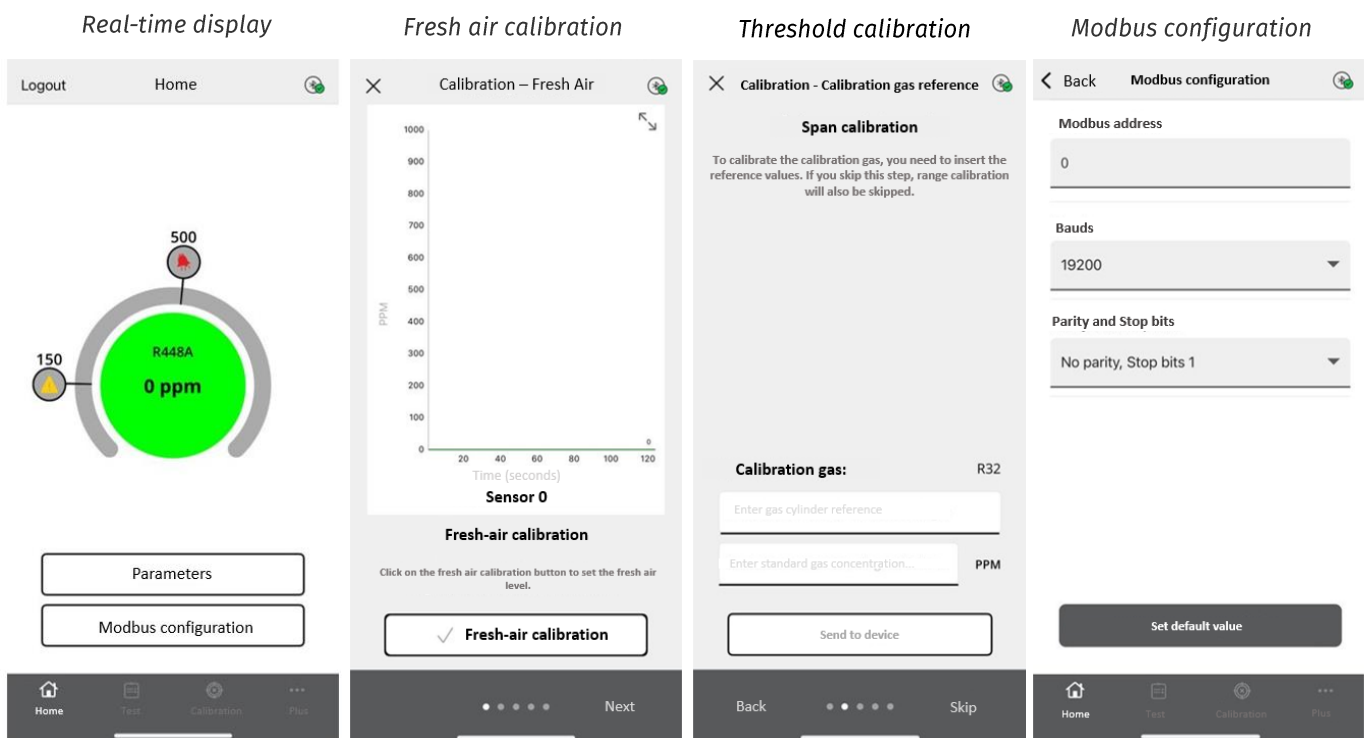
This is a sensor-transmitter equipped with a probe and 2 alarm levels, which can be used either as a stand-alone detector or connected to a control system (e.g. BMS) via a Modbus link.

It has two relay outputs for high and low alarm levels, plus an analogue output that can activate external safety equipment such as valves, fans and/or general alarms.

A dedicated "SAMON GLACIÄR" mobile application is available, enabling full use of the detector's capabilities.

It enables maintenance and configuration of detectors and Modbus parameters, visualization of measurements in real time, testing of the various outputs and calibration of the detector.

Mobile application screenshot





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5 types of detectors are available, depending on the fluid:

Detector	Fluids detected	Sensor	Detection range	Operating conditions		
				Temperature	Relative humidity	Maximum altitude
GLACIÄR MIDI Group 1	R-32, R-407A, R-407C, R-407F, R-410A, R-448A, R-449A, R-452A, R-452B, R-454A, R-454B, R-454C, R-455A, R-507A	Semi-Conductor 5-year service life	0-1000 ppm	-40°C to +50°C	5 to 90%	2000 metres
GLACIÄR MIDI Group 2	R-1233zd, R-1234yf, R-1234ze, R-134a, R-22, R-404A, R-450A, R-513A	Semi-Conductor 5-year service life				
GLACIÄR MIDI Group 3 (HC)	R-290, R-600a, R-1270	Semi-Conductor 5-year service life	0-4000 ppm			
GLACIARY MIDI CO ₂	R-744 (CO ₂)	Infrared 7-year service life	0-10000 ppm			
GLACIARY MIDI NH ₃	R-717 (Ammoniac)	Electrochemical 1-year service life	0-100ppm 0-1000 ppm 0-5000 ppm (range to be selected)			

*under normal conditions of use

Regulatory aspects

GLACIÄR MIDI room controllers meet the requirements of European standard NF EN 378 (chapter 9 on leak detectors), as well as WEEE (Waste Electrical and Electronic Equipment). They are in compliance with:

- (EMC) 2014/30/EU
- (LVD) 2014/35/EU
- EN61010_1 | UL61010-1/CSA C22.2 NO.61010-1
- EN-378
- EN14624
- EN50270
- EN50271
- (RED-FCC)20114/53/E



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Features

Features	GLACIARY MIDI
Power supply	24 V AC, 5 W
Visual indicators and alarm status	3-color LED: green, orange, red
Precision	-10% / +15%
Alarm delay after detection	Configurable - 0 to 20 min via Modbus or mobile application
Configurable relays	2 relays: 1 for each alarm level (high and low)
Analog output	1 configurable output : 4 to 20 mA (default) 1 to 5 V 2 to 10 V 0 to 10 V
Modbus RTU digital output	RS-485 terminal block Baud rate: 9600 or 19200, configurable Data bits: 8 Parity: none (default), odd or even, configurable Stop bits: 1 or 2, configurable Repetition time: 200 ms (minimum)
Calibration	Annual Via calibration kit sold separately or via mobile app
Service life	5 years*
Housing	IP67 233 x 175 x 97 mm Integrated probe 590g Detachable probe 850g
Bluetooth	Bluetooth® Low Energy, BLE 4.2 pour application Glaciär Midi

* Normal operating conditions (25°C, 50% relative humidity and atmospheric pressure)

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