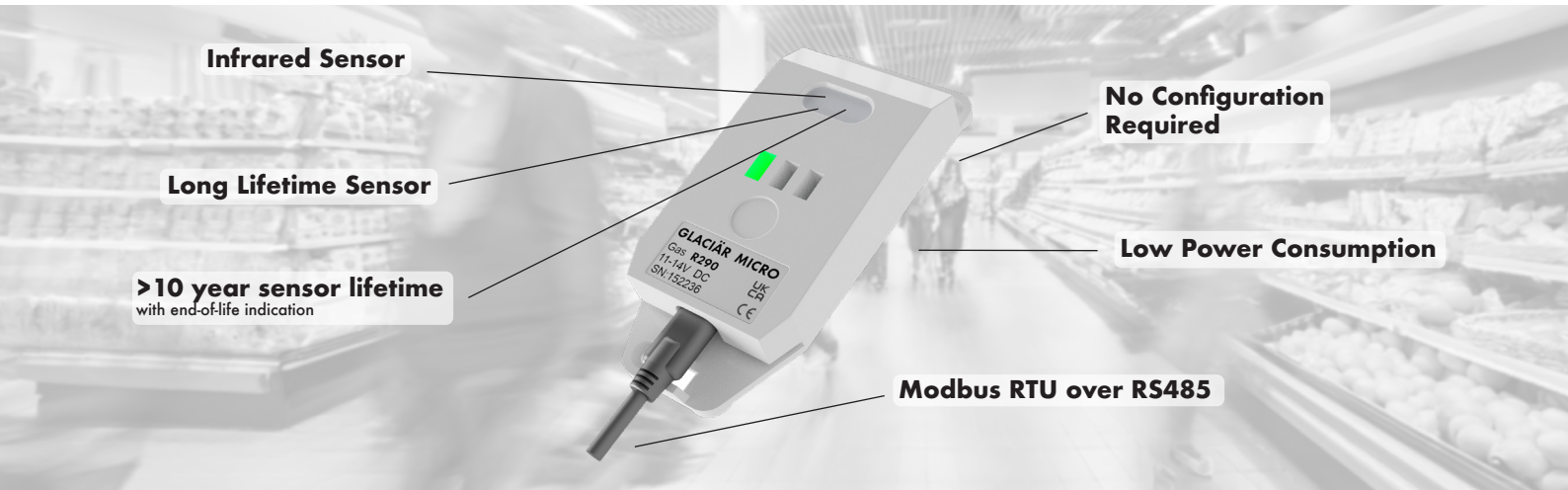


GLACIÄR MICRO

Refrigerant Detector for OEM Integration



- Infrared sensor requires minimal maintenance
- Auto-zero calibration, no baseline drift
- Long lifetime sensor >10 years
- Field-proven refrigerant detection technology
- Modbus RTU over RS485 for simple integration into control systems
- Addressable detectors for multi-sensor installations
- Plug-&-play out-of-the-box installation
- No configuration required
- Robust design with high ingress protection for use in harsh environments
- Operation continuously monitored with diagnostics & indication in the event of fault
- Low power consumption <0,4W allows easy integration with existing control devices

GLACIÄR MICRO is a small-format refrigerant gas detector for installation integrated within OEM equipment.

Gases measured are refrigerants including R32, R454x, and R290.

Typical examples include refrigerated display cases and heat pumps.

Designed and built with over 30 years' experience and expertise in refrigeration applications, **GLACIÄR MICRO** is part of **SAMON's GLACIÄR series** of simply reliable gas detectors



SIMPLY RELIABLE REFRIGERANT GAS DETECTORS

www.samon.com

Part of **safe monitoring group**

Modbus RTU over RS-485		
Modbus	RTU over RS-485 (30V tolerant)	
Baud rate	9600, 19200 (default) or 57600	
Data bits	8	
Parity	None (default), Odd or Even	
Stop bits	1 (default) or 2	
Power Supply	GLACIÄR MICRO	GLACIÄR MICRO LP
Operating voltage	18 - 32 V AC/DC	11 - 15 V DC
Power consumption	21 mA (58 mA peak)	<= 25 mA
Operating effect, max.	< 0,4 W	< 0,4 W
Wiring		
Cable size	22AWG x 2 twisted pairs +D + Aluminum foil shield, Outer Diameter 5.5 mm	
Cable connector	USB C form, waterproof	
Dimensions		
Enclosure Size (W×H×D)	56 x 128 x 27mm / 2.2 x 5.04 x 1.06 in	
Weight	75g / 2.65 oz	
Environmental		
Operating temperature	-20°C to 60°C / -4°F to 140°F	
Storage temperature	-20°C to 60°C / -4°F to 140°F	
Humidity	0 to 99% RH, non-condensing	
Enclosure protection	Energized: IP55; De-energized: IP55	
Enclosure material	ABS 777D, UL 94/V0	
Maximum allowed air pressure	60 to 120 kPa	
Sensor		
Technology	Infra-red	
Gas	R32 / R454x / R290 (more available on request)	
Measuring range	0 - 100% LFL	
Performance		
Warm-up time	60 seconds	
Measuring range	0 - 50% LFL	
Accuracy	+/- 10%	
Response time	T90 <= 30s	

Applicable standards

Standards

IEC EN 63000	IEC TS 63542
IEC EN 60335-1	CE
IEC EN 60335-2-40, Annex LL	
EN 50270	

For more information see www.samon.com