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GLACIÄR
MICRO

REFRIGERANT DETECTOR FOR OEM INTEGRATION

SIMPLY RELIABLE REFRIGERANT GAS DETECTORS

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REFRIGERANT DETECTOR FOR OEM INTEGRATION

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

GLACIÄR MICRO

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safe monitoring

FEATURES & BENEFITS

- 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 <25mA allows easy integration with existing control devices

TECHNICAL DATA

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	
Operating voltage	11V to 15V
Power consumption	<=25mA
Operating effect, max.	<0,4 W
Wiring	
Cable size	22AWG x 2 twisted pairs +D+Aluminium foil shield, Outer Diameter 5.5 mm
Cable connector	USB C form, waterproof
Dimensions	
Enclosure Size (W×H×D)	56x128x27 mm / 2.2 x 5.04 x 1.06 inches
Weight	75g / 2.65 oz
Environmental	
Operating temperature	-20 to 60 °C / -4 to 140 °F
Storage temperature	-20 to 60 °C / -4 to 140 °F
Humidity	0 to 99% RH, non-condensing
Enclosure protection	IP65
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 - 50 %LFL
Performance	
Warm-up time	15 minutes
Measuring range	0 - 50 %LFL
Accuracy	+/- 10%
Response time	T90 <= 30s

Applicable standards

Standards
(EMC) 2014/30/EU (pending)
(LVD) 2014/35/EU (pending)
IEC 61010-1 | UL61010-1/CSA C22.2 No. 61010-1 (pending)
UL 60335-2-89 (pending)
UL 60335-2-40 (pending)

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