



Leak detection

## ROOM CONTROLLER

### GLACIÄR X5 fixed leak detector

The **GLACIÄR X5** room controller is a refrigerant leak detector for all air-conditioning and refrigeration systems that can be installed in an ATEX zone.

The **GLACIÄR X5** environmental controller can be configured in three different ways :

- 1 or 2 integrated probes.
- 1 integrated probe and 1 remote probe.
- 2 remote probes.

It is an independent sensor-transmitter with probes that have 2 configurable alarm levels.

The **GLACIÄR X5** detector consists of a transmitter and probe(s) sold separately.



Non contractual photo

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

Depending on the fluid to be detected, the sensor technology and detection range will vary:

Model	Fluids to be detected	Sensor	Detection range
IRR	R-22, R-32, R-123, R-125, R-134a, R-227, R-404A, R-407A, R-407F, R-410A, R-417A, R-422D, R-448A, R-449A, R-452B, R-507A, R-513A, R-1233zd, R-1234yf, R-1234ze	Infrared	0-2000 ppm
R1	R-407C, R-22, R-134a, R-404A, R-410A	Semi-Conductor 5-year service life*	0-1000 ppm
R2	R-32, R-22, R-1234yf, R-410A, R-1234ze, R-290, R-454B, R-404A	Semi-Conductor 5-year service life*	1000 - 10000 ppm
CO2	R-744 (CO <sub>2</sub> )	Infrared 5-year service life*	0-50000 ppm
NH3	R-717 (Ammonia)	Electrochemical 5-year service life*	0-100 ppm 0-1000 ppm 0-500 ppm 0-5000 ppm (range to be selected)

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



Leak detection

## Regulatory aspects

**GLACIÄR X5** room controllers meet the requirements of European standard NF EN 378 (chapter 9 on leak detectors) and the WEEE (Waste Electrical and Electronic Equipment) Directive.

They comply with the following standards :

- **(EMC) 2014/30/EU**
- **(ATEX) 2014/3/EU**
- **IEC 60079-0 :2017 7TH EDITION**
- **IEC 60079-29 :1 :2016 EDITION**
- **IEC 60079-1**
- **IEC 60529**
- **EN 50270**
- **EN 60068-2-6**
- **EN 50271**
- **IEC 61010-1 :2010+A1:2016**
- **IEC 61010-1 :2010+A1:2019**

## Features

Features	GLACIÄR X5
Power supply	18 to 30V DC
Visual indicators and alarm status	Digital displays : 3 colours : green, orange, red
Accuracy	-10% / +15%
Alarm delay after detection	Configurable - 3 to 99 seconds
Configurable relays	2 alarm relays : 1 per alarm level (high and low) 1 fault relay
Analog output	0 to 24 V 4- 20 A
Sensor housing	Stainless steel
Calibration	Annual With calibration kit sold separately – contact Climalife
Operating conditions	Temperature : -20°C to 55°C -20°C to 55°C -20°C to 55°C Relative humidity : 20 to 90% Maximum altitude : 2000 metres
Service life	5 years*
Housing	IP66 196.5 x 128 x 109.5 mm Weight without probes 1.1kg

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

The information contained in this product sheet is the result of our studies and experience. It is provided in good faith, but should not, under any circumstance, be taken to constitute a guarantee on our part or an assumption of our responsibility. This is particularly the case when third party rights are at stake or in situations where a user of one of our products fails to observe applicable regulations.



For more information, contact us via our website :  
<https://climalife.com/contact-us/>



web