

# REFRIGERANT LEAK DETECTOR

**cool**   
guardian



  
MADE IN ITALY

 seitron

# COOL GUARDIAN

## GAS CONCENTRATION TRANSMITTER

### COMPLETE REFRIGERANT GAS RANGE

HCFC

HFO

HC

HCF

MIXTURES



#### OUTPUTS

Configurable analog output  
(4-20mA, 0-5V, 0-10V, 1-5V, 2-10V)



#### MODBUS COMMUNICATION

Up to 32 devices connectable via  
RS485 interface



#### RELAY OUTPUTS

Three relays to serve as fault  
detector, low and high-level alarm  
triggers



#### INCREASED SAFETY

Built-in audible and visual alarms  
for an immediate danger warning, in  
compliance with safety standards



#### EASY TO USE

Commissioning and maintenance  
without special tools



Cool Guardian Refrigerant Leak Detector, characterized by fast response time, **low-temperature performance** (-40°C/50°C), and **integrated audio and visual alarms**, simplifies and facilitates compliance to safety regulations.

Modern refrigeration systems are engineered for optimal efficiency and airtight integrity. However, improper installation, unintentional damage, or mechanical wear and tear can potentially lead to hazardous leaks.

In this context, Cool Guardian gas transmitter **serves as vigilant guardian against unforeseen leaks**, which could compromise both the environment and human well-being.



## Technical Features

<b>Power supply voltage:</b>	24 Vac $\pm$ 30% or 12 .. 24 Vdc $\pm$ 20%
<b>Power absorption:</b>	5 W
<b>Relay outputs</b>	
<b>Contact rating:</b>	3 x 1A 30 Vac (voltage free)
<b>Analog Output:</b>	4-20mA, 0-5V, 0-10V, 1-5V, 2-10V - configurable via App
<b>Modbus® output:</b>	Via RS485 with Modbus® RTU protocol Up to 32 connectable devices
<b>Protection degree:</b>	IP65 (With cables/plugs inserted in the cable glands)
<b>Operating temperature:</b>	-40 .. +50 °C (-40 .. +122 °F)
<b>Operating humidity:</b>	20% .. 90% RH (non-condensing)
<b>SIZE (W x H x D):</b>	190 x 176x 112 mm (7.5 x 7 x 4.4 inch)

Code	Range
Cool Guardian CO2 (R744)	0..10.000 ppm
Cool Guardian R410A	0..1.000 ppm
Cool Guardian R134A	0..1.000 ppm
Cool Guardian R32	0..1.000 ppm
Cool Guardian R454B	0..1.000 ppm
Cool Guardian 407C	0..1.000 ppm



### ACKC01

#### Cool Guardian Calibration Kit

to perform bump tests and calibration. Includes a magnet to pair the transmitter with Seitron Guard app.



Complete range of refrigerant gas sensors for various applications.

Choosing the appropriate gas sensor to monitor the presence of refrigerants in industrial processes, commercial cooling systems, or refrigeration plants is crucial when it comes to fixed gas transmitters.

The gas range is continuously expanding, and configurations can be customized upon request.

Below are the currently available gases:



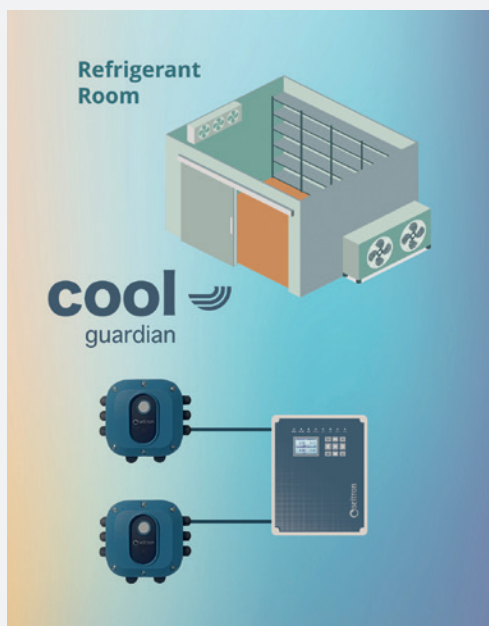
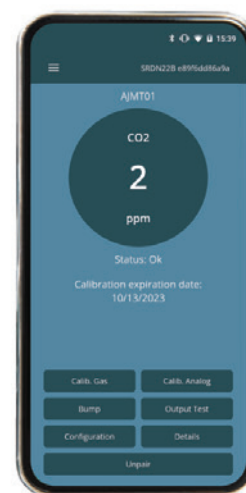
**Seitron Guard**



Seitron Guard mobile app simplifies configuration, maintenance, and interaction with Cool Guardian gas transmitters.

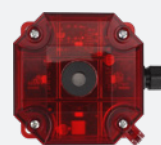
Setup, calibration and use of the detectors is made simple and immediate, thanks to Bluetooth® connectivity:

- **Bump test / Calibration**
- **Product Configuration:** device renaming for easy locating, alarm thresholds setting and output settings management
- **Maintenance:** LED tests, buzzer function and relay control
- **User friendly monitoring**



### CENTRAL UNIT WITH 32 CHANNELS

**RYF01M**  
Modbus Central Unit with 32 Channels



### ACSR02

Alarm beacon with visual and audible indicator  
Power Supply: 5 .. 30 Vdc  
Power Consumption: 2 W  
Sound Intensity: 100 dB/m

### ACSR03

Alarm beacon with visual and audible indicator  
Power Supply: 85 .. 264 Vac, 50 .. 60 Hz  
Power Consumption: 6 W  
Sound Intensity: 100 dB/m



### SEITRON SPA

36065 - Mussolente (VI) - ITALY  
Via del Commercio, 9/11 - Tel. +39 0424 567842  
info@seitron.it - www.seitron.com