



seitron



2025

CATALOGUE

REFRIGERATION



Seitron SpA, founded in 1981, has been active in the thermoregulation sector since the very beginning. Over the years, the company has also expanded its application range towards the gas safety sector (gas detectors for residential and industrial applications) and the portable instrumentation sector. Recently, Seitron has expanded its expertise in the design and production of personal safety devices, introducing a new line of portable gas detectors, designed to meet individual protection needs in work environments that may be characterised by the presence of hazardous gases. Seitron is the leading Italian manufacturer of personal gas detectors and combustion and emissions analysers. Strongly rooted in Italy, Seitron is also present throughout Europe, Asia, America and Oceania. In fact, thanks to the widespread network of agents and distributors, around 50% of the production is exported to more than 65 foreign countries.

The secret of Seitron's expansion and success can be found in its continuous investment in Research and Development, in its desire to always offer innovative, high-performance products that are environmentally friendly and energy competitive, and also in its ability to manage the entire production process, directly handling the design, production and sales phases. Finally, the design concept plays an important role in ensuring a perfect combination between functionality and aesthetics.

The foundation of Seitron Americas in 2021 marks the first step in the consolidation of Seitron on the American continent. This new reality, based in the United States, represents a point of reference for both the North and South American markets in terms of sales and customer service. This allows Seitron to serve with greater timeliness a geographical area that has always been one of the major export destinations.



INDEX

PRODUCTS

Refrigeration systems are an essential part in all residential, commercial and industrial sectors for ensuring proper functioning of air conditioning, food preservation and cooling systems in industrial processes.

Seitron offers a complete range of products to enable efficient installation and maintenance of refrigeration systems in every application.



Refrigeration Instruments

Be Cool Manifold	p. 6
Be Cool Vacuum Gauge	p. 7
Be Cool Refrigerant Scale	p. 8
Be Cool Gas Leak Detector	p. 9



Refrigerant Gas Transmitters

Cool Guardian	p. 14
Gas Master Control	p. 16



Our range of refrigeration instruments is designed to provide precise and reliable solutions for refrigeration technicians. From charging cooling systems to control system's functioning, our products guarantee high performance and accuracy in every operation.

Seitron product range includes all the instruments needed to carry out accurate and effective installation and maintenance on domestic air conditioning and commercial/ industrial refrigeration systems.

The 4-way manifold is an essential instrument for the operation and maintenance of refrigeration systems.

The portable gas leak detector enables refrigerant gas leaks to be identified quickly and effectively.

The vacuum gauge is essential for obtaining the correct vacuum measurement in installations, which is crucial information for proper installation and maintenance.

The refrigerant gas scale ensures accurate recharging of refrigeration systems, by providing accurate control of the weight of the refrigerant input.

Refrigeration Instruments



4-WAY MANIFOLD

BE COOL M4
POFD01

be cool

Be Cool M4 is a digital 4-way manifold with rechargeable battery. Measurements on refrigeration and air conditioning systems and heat pumps are made easy by the automatic determination of parameters such as superheating or subcooling, as well as the inversion between high and low pressure, automatically performed by the manifold.

Thanks to the Seitron Be Cool app, it is possible to manage the instrument remotely and share test results.

The kit includes:

- 4-way digital manifold
- Temperature clamp probes (2 units)
- Vacuum probe (with T-joint and bent joint)
- Flexible hoses (4 units):
 - 3 1/4" SAE and 1 3/8" SAE connections
- Portable hard case
- Test Certificate
- Quick Guide



Highlights



COMPLETE

Selection from more than 80 refrigerant gases (including R410, R32, R404, R290)



TOUCH DISPLAY

Simple and intuitive interface on 5" colour display



EASY TO USE

Automatic high/low pressure detection mode for easy use on the field

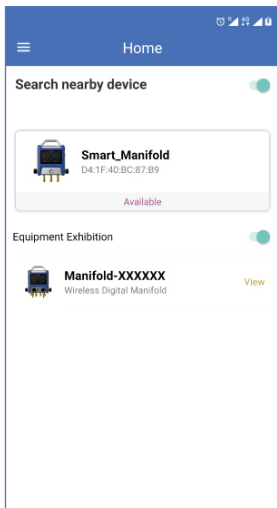


REAL-TIME DATA

Real-time data visualisation, also using the mobile app

TECHNICAL FEATURES

Power supply	rechargeable Li-Ion battery
Pressure working range	-1.0 ... +55.2 bar
Vacuum measurement range	1 . 19000 microns
Settable measurement units	psi, kg/cm ² , cmHg, inHg, bar, kPa, MPa
Refrigerant gases included	88 (including R410, R32, R404, R290)
Display	5" colour and touchscreen
Dimensions (HxWxD)	71x254x215 mm



Mobile app for smartphones to constantly monitor measures dedicated to the installation or maintenance of air conditioning or refrigeration systems.

Using Seitron Be Cool it is possible to perform:

- vacuum measurements
- weigh of the refrigerant gas cylinder when replacing or filling the system
- temperature and pressure verification of the entire system in real time

Solid shell



Side knobs



SMART DIGITAL VACUUM GAUGE

BE COOL V1

POVG01

Be Cool V1 is the smart digital vacuum gauge with rechargeable batteries, suitable for accurately and easily measuring the vacuum of refrigeration systems and heat pumps.

The rechargeable Li-Ion battery allows the instrument to be used for long periods of time and recharged quickly.

Thanks to Bluetooth communication, real-time data can be monitored on the Seitron Be Cool mobile app.

Technical Features

Power supply	rechargeable battery (1000 mAh)
Fitting	1/4 SAE male
Working temperature	-10 . 50°C
Max. pressure load	27.5 bar
Range	0 .. 19.000 microns
Accuracy	±10% rdg ±10 μ (1...10,000 μ) ±20% rdg (10,000...19,000 μ)
Settable measurement units	μ, mTorr, in/hg, Pa, Torr, kPa, mbar, psia

The kit includes:

- Smart digital vacuum gauge
- T-joint
- Fabric case
- Test Certificate
- Quick Guide

be cool

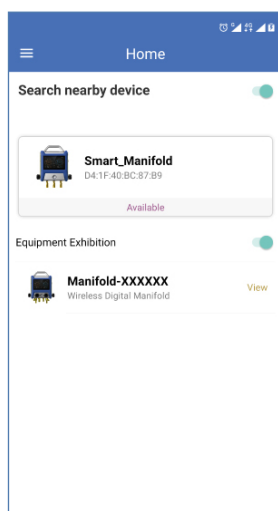


Accessories

ARRC01

T-joint

(included in the KIT)



seitron be cool



Mobile app for smartphones to constantly monitor measures dedicated to the installation or maintenance of air conditioning or refrigeration systems.

Using Seitron Be Cool it is possible to perform:

- vacuum measurements
- weigh of the refrigerant gas cylinder when replacing or filling the system
- temperature and pressure verification of the entire system in real time

REFRIGERANT SCALE (UP TO 100 KG)

BE COOL B100

POBD01

be cool

Be Cool B100 is the wireless refrigerant gas scale to easily, accurately and quickly measure the weight of refrigerant gas bottles (up to 100 kg). The measured values can be managed and displayed either from the paired remote control or via the Seitron Be Cool mobile app.



Technical Features

Battery power supply

Scale 5 x 1.5V AA

Remote control 5 x 1.5V AA

Range 0..100 kg

Resolution 5 g

Accuracy $\pm 0.05\%$ rdg +10g

Settable measurement units kg, lb

Dimensions (HxWxD) 271x271x74 (mm)

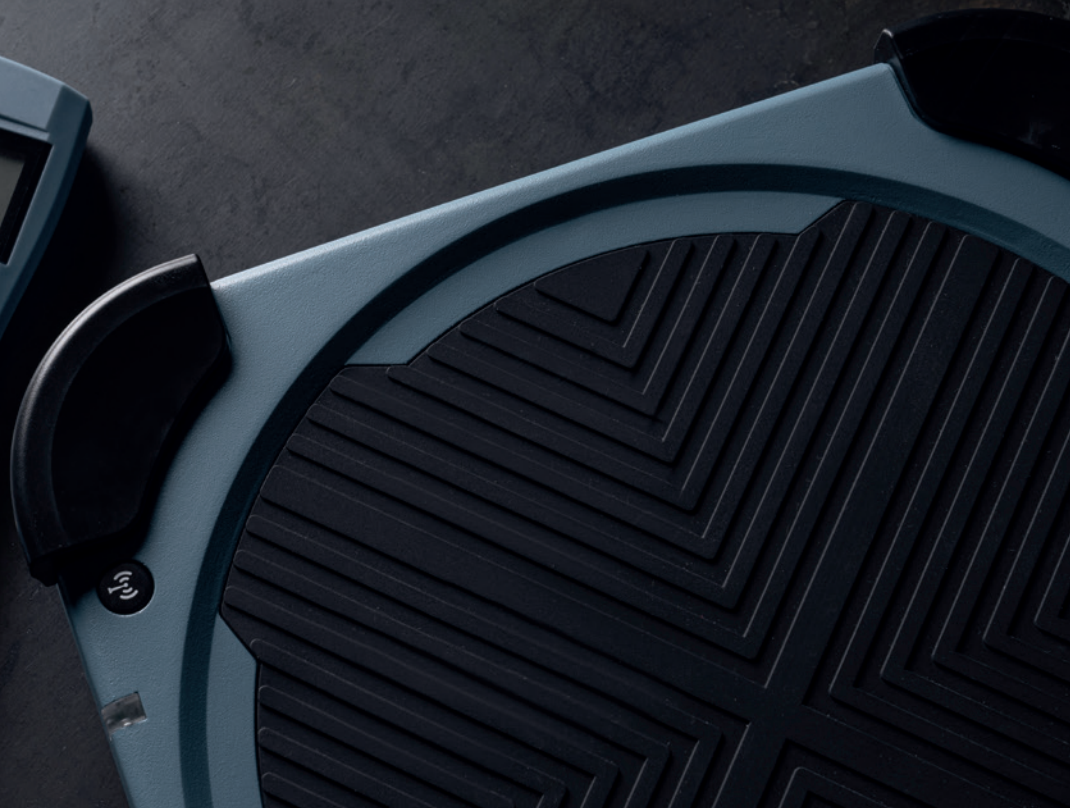


The kit includes:

- Refrigerant Scale
- Remote control
- Alkaline batteries
- Transport bag
- Quick Guide
- Test Certificate



seitron be cool



HEATED DIODE LEAK DETECTOR FOR REFRIGERANT GASES

BE COOL R1

POLR02

be cool

Be Cool R1 is the refrigerant gas detector for reliable detection of all commonly used refrigerants, thanks to its heated diode sensor. Its design makes it handy and robust. The sensitivity levels allow accurate detection of small leaks, which are reported on the display and with an audible alarm. The instrument can detect all common refrigerant gases, including R134A, R290, R410A and R32.

Technical Features

Battery power supply	3 x 1.5V AA
Sensor	heated diode
Minimum sensitivity	3 g/year
Display	LCD graphic matrix
Available refrigerants	CFC, HCFC, HFC, HFO
Flexible probe length	420 mm
Operating temperature	0°C ... +50°C
Sensor warm-up time	30 seconds



The kit includes:

- Leak detector for refrigerant gases
- Alkaline batteries
- Test Certificate
- Quick Guide

CALIBRATION CERTIFICATES

COD	DESCRIPTION
CER030	Calibration certificate for Be Cool M4 4-way manifold complete with external probes
CER031	Calibration certificate for Be Cool V1 smart digital vacuum gauge
CER032	Calibration certificate for Be Cool B100 refrigerant scale (up to 100 kg)
CER033	Calibration certificate for Be Cool R1 heated diode refrigerant gas leak detector



Fixed refrigeration transmitters are essential for continuously detecting the presence of refrigerant gases in the room air. Used primarily in industrial and commercial environments, these devices are designed to detect gas leaks that could be harmful to the environment and human health.

Seitron offers a range suitable for detecting different refrigerant gases to ensure reliable and constant monitoring, helping to keep workplaces safe and compliant with environmental standards.

Refrigerant Gas Transmitters





COOL GUARDIAN

REFRIGERANT GAS TRANSMITTER

R744 (CO₂)	R410A	R134A	R32
R454B	R407C	R290	R717 (NH₃)

FULL RANGE OF REFRIGERANT GASES



OUTPUTS

Configurable analogue outputs
(4 ... 20 mA, 0-5 V, 0-10 V, 1-5 V, 2-10 V)



MODBUS® COMMUNICATION

Up to 32 devices connectable
via RS485 interface



RELAY OUTPUTS

3 relays acting as fault detectors
and activating low and high level
alarms



INCREASED SAFETY

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



EASY MAINTENANCE

Possibility to perform on-site
calibration with mobile App



Cool Guardian Refrigerant Leak Detector ensures fast response times, high performance even at low temperatures (-40°C), and integrated audio and visual alarms.

Modern refrigeration systems are engineered for optimal efficiency.

However, improper installation, unintentional damage or mechanical wear can potentially lead to hazardous gas leaks.

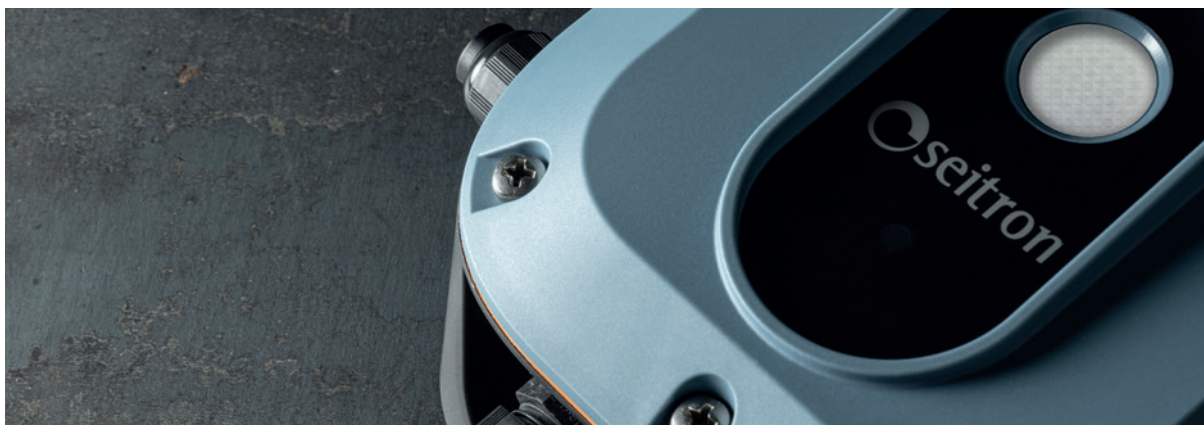
In this context, the Cool Guardian gas transmitter serves as a vigilant guardian against unexpected leaks, which could compromise both environment and health.



Technical Features

Power supply voltage:	12 .. 24 Vac \pm 10% or 12 .. 24 Vdc \pm 10%
Power absorption:	5 W
Relay outputs:	3 x 1 A 30 Vac (voltage-free contacts)
Analogue output:	4 .. 20 mA, 0-5 V, 0-10 V, 1-5 V, 2-10 V - configurable via App
Modbus® output:	via RS485 with Modbus® RTU protocol up to 32 connectable devices
IP Rating:	IP65 (With cables/caps inserted in cable glands)
Working Temperature:	-40 .. +50 °C (-40 .. +122 °F)
Working Humidity:	20% .. 90% RH (without condensation)
Dimensions (HxWxD):	176x192x83 mm

Code	Gas	Sensor Type	Range
Cool Guardian R744 (CO2)	R744 (CO2)	NDIR	0 .. 10.000 ppm
Cool Guardian R410A	R410A	Semiconductor	0 .. 1.000 ppm
Cool Guardian R134A	R134A	Semiconductor	0 .. 1.000 ppm
Cool Guardian R32	R32	Semiconductor	0 .. 1.000 ppm
Cool Guardian R454B	R454B	Semiconductor	0 .. 1.000 ppm
Cool Guardian 407C	R407C	Semiconductor	0 .. 1.000 ppm
Cool Guardian R290	R290	Semiconductor	0 .. 2.500 ppm
Cool Guardian R717 (NH3)	R717 (NH3)	Electrochemical	0 .. 100 ppm



PROGRAMMABLE CONTROL UNIT

GAS MASTER CONTROL

RYF01M



Gas Master Control is the gas detection control unit for combustible, toxic and refrigerant gases.

Up to 40 transmitters can be connected **simultaneously**, thanks to the analogue 4 ... 20 mA inputs and Modbus® RTU port.

Each transmitter (slave) can detect a specific gas and can communicate its status to the control unit (Master), which can activate any connected device. In fact, the two additional inputs allow the control unit to be connected to the fire alarm or manual reset button.



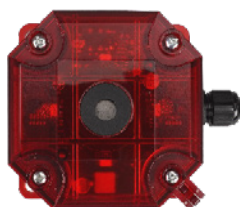
Technical Features

Power supply	85 ... 254 Vac 50 ... 60 Hz 12 Vdc
Inputs	8x4 . 20 mA 1 fire alarm input 1 input for manual reset
Modbus® RTU (via RS485)	up to 32 gas transmitters
Outputs	5x5 A 250 Vac SPDT
Display	graphic LCD 180x128
Dimensions (HxWxD)	276.7x198.4x95.8 mm

Accessories

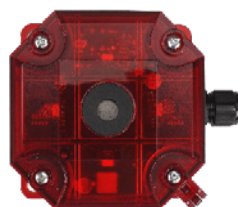
ACSR02

Alarm beacon with visual and audible indicator
Power supply: 7 . 30 Vdc
Power consumption: 2 W
Sound Intensity: 100 dB @ 1m



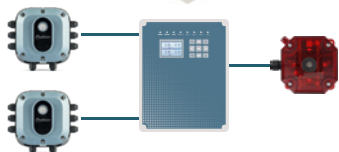
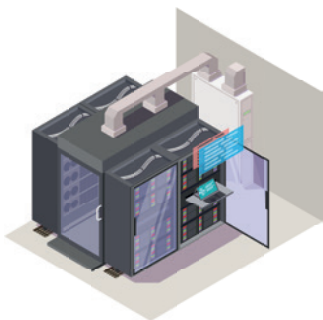
ACSR03

Alarm beacon with visual and audible indicator
Power supply: 85 ... 264 Vac, 50 ... 60 Hz
Power consumption: 6 W
Sound intensity: 100 dB @ 1m



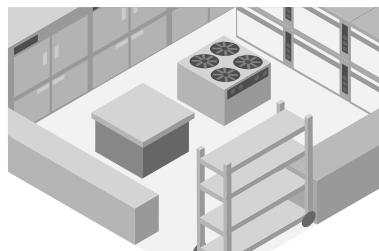
GAS MASTER CONTROL APPLICATIONS

DATA CENTER INFRASTRUCTURE



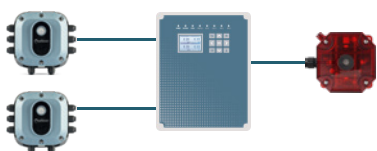
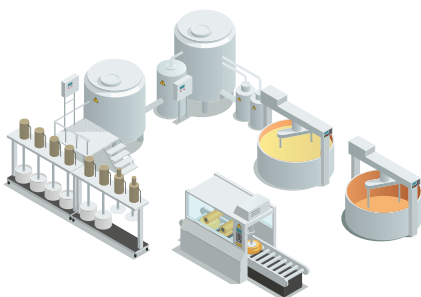
- Cool Guardian Serie
- Gas Master Control (RYF01M)
- Alarms (ACSR02/3)

FRYING CABINETS



- Cool Guardian Serie
- Gas Master Control (RYF01M)
- Alarms (ACSR02/3)

FOOD INDUSTRY



- Cool Guardian Serie
- Gas Master Control (RYF01M)
- Alarms (ACSR02/3)

SEITRON SERVICE AND WARRANTY

Seitron is at your complete disposal to convey all the necessary information to your customers, acquired and potential ones, in the Pre- and Post-Sales phases.

Our employees, with their many years of experience in the sector, will be happy to provide support at every stage of the purchase, right up to the resolution of any anomalies that may arise when using the product.



CONTATTACI

customer.care@seitron.it



SCRIVICI SU WHATSAPP

+39 329 1444390



PARLA CON NOI

+39 0424 567842

RETURN AUTHORISATION

Contact Seitron Customer Care to request your **Return Authorisation Number (RMA)**.



online form



0424 567842 (Extension 1)



customer.care@seitron.it



WhatsApp 329 144 4390

Once obtained, please wait for instructions on how to send the goods. Returns must always be accompanied by a Transport Document, where the authorisation number is present. Returns without an RMA will lose their acquired time priority.

Following careful technical verification, Seitron is committed to repair or replace products found to be under warranty, returning them at its own expense to the customer

EASY RETURN PROCEDURE



In the interest of continuous product development, Seitron reserves the right to make changes to technical data and performance without prior notice. Visit our website www.seitron.com to view the latest technical documentation, manuals and catalogues.



SEITRON S.p.A.

Via del Commercio, 9/11
 36065 - Mussolente (VI) - ITALY
 Tel. +39 0424 567842
 VAT (VAT) IT00775330244

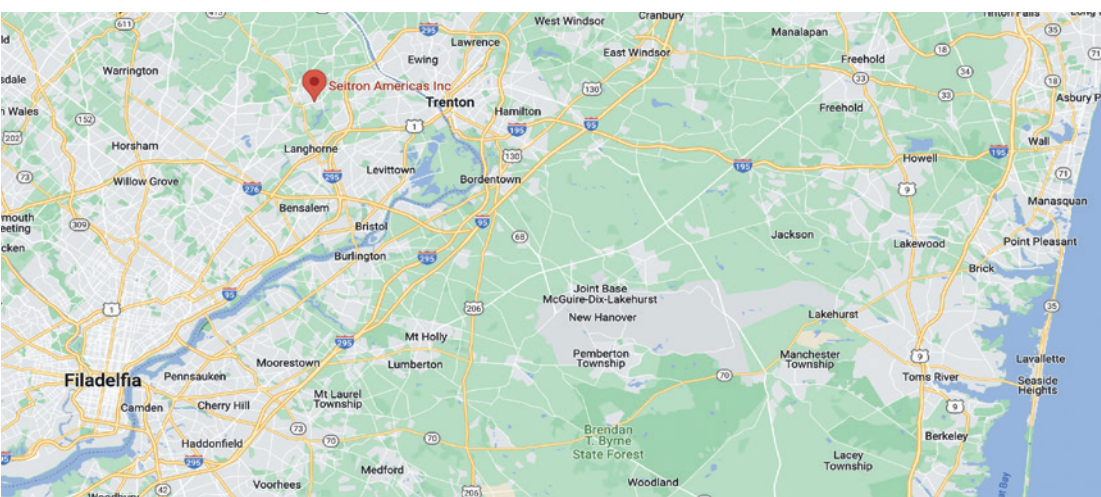
info@seitron.it
 www.seitron.com



SEITRON SERVICE MILAN

Via Leonardo Da Vinci, 1
 20090 - Segrate (MI) - ITALY
 Tel. +39 02 83647671

service.milano@seitron.it



SEITRON AMERICAS INC.

140 Terry Drive - Ste 101
 Newtown, PA 19053
 USA
 Tel. (215) 660-9777
 Fax: (215) 660-9770

info@seitronamericas.com
 www.seitronamericas.com



Via del Commercio 9/11
35065 - Mussolente (VI) - ITALY
+39 0424 567842
info@seitron.it
www.seitron.com