

CALIBRATION GAS

Smart and easy calibration



Accurate calibration is crucial for:

- Protecting personnel
- Preventing accidents
- Meeting safety and environmental regulations

Importance of regular calibration

Calibrating gas detectors is essential to ensure reliability in detecting hazardous gases across various environments. Neglecting calibration increases the risk of undetected leaks, false alarms, and equipment malfunctions, potentially endangering lives and property.

The output at "zero reading" will drift over time due to factors such as environmental changes, sensor aging, exposure to gas concentrations, and extreme operating conditions.

Regular calibration compensates for variations in fresh air composition and should be conducted at least annually or more frequently in demanding conditions.

Making calibration smarter and easier

The calibration process for devices like our GLACIÄR MIDI is streamlined using **gas group-based methodologies**. This allows **the entire GLACIÄR MIDI range to be calibrated with just five gases**, enhancing efficiency and minimizing stock requirements.

For detailed calibration procedure, see the GLACIÄR MIDI manual.



SIMPLY RELIABLE REFRIGERANT GAS DETECTORS

www.samon.com

Part of **safe monitoring group**

CALIBRATE REGULARLY

to ensure reliable
performance

Calibration Kit

To ensure correct gas concentration during the calibration of your GLACIÄR MIDI, always use the SAMON original calibration kit.



Flow Regulators

A flow regulator ensures consistent gas flow during calibration, enabling accurate sensor response. Without it, inconsistent flow can lead to unreliable calibration and compromised detector performance.

Brass Flow Regulators – Suitable for non-corrosive gases
Stainless Steel Regulators – Needed for corrosive or high-purity gases to prevent contamination and ensure durability (NH₃)

Calibrate your gas detectors regularly to stay safe and compliant

By testing your gas detectors annually you make sure they comply with the European Standards EN 378 and EN 14624, as well as local legislations.



Purchasing
bundles of
6 or 12 cylinders
significantly
reduces the cost
per unit

For pricing please see our price list
or contact us at order@samon.com



SELECT CALIBRATION GAS FOR YOUR GLACIÄR MIDI

Your GLACIÄR MIDI Gas Measurement	Group No.	Calibration Gas To Be Used
R32, R407A, R407C, R407F, R410A, R448A, R449A, R452A, R452B, R454A, R454B, R454C, R455A, R464A, R465A, R466A, R468A, R507A	1	R32
R134A, R404A, R450A, R513A, R1234yf, R1234ze, R1233zde	2	R134A
R290, R50, R600a, R1150, R1270	3	R290
CO ₂	4	CO₂
NH ₃	5	NH₃

TECHNICAL DATA

Gas	R32	R134a	R290	CO ₂	NH ₃			
Concentration (ppm)	1000	1000	4000	8000	50	500	2500	4000
Volume	58 l.	58 l.	58 l.	58 l.	58 l.	58 l.	58 l.	58 l.
Accuracy of the gas	± 2%	± 2%	± 2%	± 2%	± 5%	± 2%	± 2%	± 2%
Estimated lifetime	5 years	5 years	5 years	5 years	1 year	1 year	1 year	1 year
No. of detectors to be calibrated (est.)	35 units	35 units	35 units	35 units	35 units	35 units	35 units	35 units

CALIBRATION GAS

Article No. 1 unit	Article No. Distributor	Gas Type
61-2041		Test Gas R32 – 1000 ppm (R32/Air) 58 litres cylinder
61-2046		Test Gas R134a – 1000 ppm (R134a/Air) 58 litres cylinder
61-2051		Test Gas R290 – 4000 ppm (R290/Air) 58 litres cylinder
61-2063		Test Gas CO ₂ – 8000 ppm (CO ₂ /N ₂) 58 litres cylinder
61-2030		Test Gas NH ₃ – 50 ppm (NH ₃ /Air) 58 litres cylinder
61-2031		Test Gas NH ₃ – 500 ppm (NH ₃ /Air) 58 litres cylinder
61-2032		Test Gas NH ₃ – 2500 ppm (NH ₃ /Air) 58 litres cylinder
61-2033		Test Gas NH ₃ – 4000 ppm (NH ₃ /Air) 58 litres cylinder
Article No. 6 units	Article No. 12 units	Gas Type
61-2041-6	61-2041-12	Test Gas R32 – 1000 ppm (R32/Air) 58 litres cylinder
61-2046-6	61-2046-12	Test Gas R134a – 1000 ppm (R134a/Air) 58 litres cylinder
61-2051-6	61-2051-12	Test Gas R290 – 4000 ppm (R290/Air) 58 litres cylinder
61-2063-6	61-2063-12	Test Gas CO ₂ – 8000 ppm (CO ₂ /N ₂) 58 litres cylinder
61-2030-6	61-2030-12	Test Gas NH ₃ – 50 ppm (NH ₃ /Air) 58 litres cylinder
61-2031-6	61-2031-12	Test Gas NH ₃ – 500 ppm (NH ₃ /Air) 58 litres cylinder
61-2032-6	61-2032-12	Test Gas NH ₃ – 2500 ppm (NH ₃ /Air) 58 litres cylinder
61-2033-6	61-2033-12	Test Gas NH ₃ – 4000 ppm (NH ₃ /Air) 58 litres cylinder

Other gases, sizes and quantities are available - contact sales for more information.

ACCESSORIES

Article No. Calibration kit		
61-9040	Calibration kit	
Article No. 6 units	Article No. 12 units	Flow regulator
61-9013-6	61-9013-12	Flow regulator, 0.5 l/min, St. Steel, 6 or 12 units per package
61-9015-6	61-9015-12	Flow regulator Fix, 0.5 l/min, Test Gas (Non Corrosive Gas) Brass

For more information see www.samon.com