

GS-1

Portable Gas Detection Equipment



- ▮ Robust
- ▮ Effective warning
- ▮ Flexible
- ▮ User friendly



GS-1

Personal Single Gas Monitor

With over 45 years of gas detection experience, Macurco strives to provide the highest quality gas detection and safety solutions to serve the global market. Since 1972 Macurco has been providing detection options for a number of gases in various spaces and applications.

Macurco provides both single gas and multigas monitors for personal safety and portable monitoring applications presenting protection against a wide range of industrial gas hazards.



Choosing the portable gas detector for your needs

GS-1 is a rugged, compact single gas personal monitor designed for use in the toughest environments.

With rugged impact resistant construction and compliance to IP65. GS-1 gives an unbeatable combination of powerful loud and bright alarms. It's stunningly compact and lightweight design makes it ideal for use in industries such as oil and gas, chemical, steel works, waste and water works.

GS-1 is small, light and easy to use. Weighing just 130g, it is extremely durable, with high impact resistance and dust/water ingress protection to IP65. When potentially hazardous levels of gas are detected, the GS-1 alerts the user with a loud 95 dB alarm, a vivid red/blue visual warning and also by vibrating.

GS-1 features simple, single-button control and has an easy-to-read, backlit LCD display to ensure clear viewing of gas level readings, alarm conditions and battery life. Data and event logging are available as standard, and there is a built-in 30 day advance warning when calibration is due.



Robust

Tough polycarbonate housing	Protects you in the harshest environments
Water and dust resistant to IP65	
Full overmoulding	High impact resistance

Effective warning

95dB audible alarm	Ensures prompt evacuation from hazardous zone
Vivid twin red/blue visual alarm	If ambient noise is high, GS-1 still alerts you by vibrating and with the high impact blue/red LED alarms
Internal vibrating alarm	

Flexible

Rechargeable	Gas detector tailored to your requirements
Fully interchangeable intelligent sensor modules	

User friendly

One button operation	Quick and easy to use
Backlit display for gas diagnostics and operating status	Easy to read
Ultra lightweight	Comfortable to wear

Gas Test Kit

The Gas Test Kit provides a simple and convenient means of carrying out either bump test or a calibration.

Charging Cradle

The Charging Cradle comes with the GS-1 to easily charge your detector when not in use.



Gas Test Kit



Charging Cradle

Gases and Ranges

Required range and alarms vary by country and application, and these can be configured using optional software. Each gas channel can have two instantaneous alarm levels set.

Typical ranges and alarms:

Gas	Range	Standard Alarm
Flammable	0-100% LEL	20% LEL

Please see the back page for full technical specifications.

GS-1 Specification:

Size		3.5 x 1.9 x 0.95 in (90 x 48 x 24 mm)
Weight	Flammable	138g (4.9oz)
Typical response times (T₉₀)	Flammable	20s
Alarms	Audible	95dB Multiple alarm options let you select distinctive tones for different alarm levels
	Visible	Dual colors red/ blue flashing LEDs in a gas hazard
	Vibrating	Internal vibrating alarm
Display		Custom LCD with backlight and display of gas concentration. Graphic symbols for battery (with proportional indication of remaining operation time), and display mode. Start up indication when calibration is due within 30 days, calibration overdue or service required.
Display modes	Normal display Display recall	Real time gas concentration levels
Datalogging		Full timed data logging with adjustable sample rate, set to 1 min. data rate as default. 900 hours storage at 1 min. interval (54,000 logs), >4800 events
Battery	Rechargeable	Lithium battery
Operating time*	Rechargeable	12 hours minimum for flammable unit
Sampling		Optional manual aspirator
Operating temperature range		-4°F to +149°F (-20°C to + 65°C)
Humidity		20-90% RH
Ingress protection		IP65
Approval codes	North America	CSA Class 1 Groups A,B,C,D Division 1
	International	Flammable: IECEx BAS05.0038
	Europe	Flammable: ATEX II 2G Ex ia d IIC T4 Gb (-200C ≤ Ta ≤ +65°C) BASEEFA04ATEX0383
Standards safety	North America	CSA22.2, 152
	Europe	EN60079-0, EN60079-11, EN60079-1, 94/9/EC
Operation standards		EN50270, EN50271, IEC61508, EN61779, EN45544
PC interface		RS232 connection from interface module in charger RS232/USB converter available
Calibration		GS-1 can be routinely calibrated using Portables PC software
Accessories		GS-1 is supplied with an integral alligator clip

*Operating time will depend on operating pattern and alarm occurrence. Frequent or long lasting alarms and use of the optional confidence beep will reduce battery life.

Macurco reserves the right to change the design or specification of the product without notice.

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