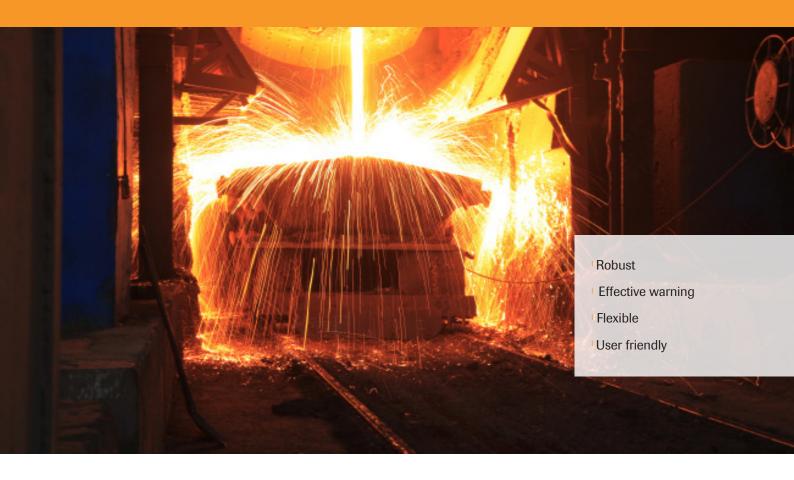


GS-1

Portable Gas Detection Equipment





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 hardhest anyiranments
Water and dust resistant to IP65	Protects you in the harshest environments
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	
Internal vibrating alarm	impact blue/red LED alarms	

Flexible

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

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

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

GS-1 Specification:

Weight Famunable 18g (4.002) Typical response times (1, n) Famunable 20s Alamna Audible 050GB Multiple alam options let you select distinctive tones for different alam levels Weight Visible Dust colors and the best leght and display of gas concentration. Graphic symbols for battery (with proportional indication of remaining operation time), and display model. Start up indication when cultirations is due within 30 days, cultivation or survice required. Display modes Normad display of call full smeed data logging with adjutable sample rate, set to 1 min. data rate as default. Buttery Rechargeable Lithium buttery Operating time* Rechargeable Lithium buttery Sampling Feed only the principle of the set to 1 min. data rate as default. Operating time* Rechargeable Lithium buttery Operating time* Rechargeable Lithium buttery Operating time* Prechargeable A Fee to 148F (2.00 to 68°C) Buttery For this properties Prechargeable Prechargeable Operating temperature range For this principle of the properties of the principle of	Size		3.5 x 1.9 x 0.95 in (90 x 48 x 24 mm)
Alarms Al	Weight	Flammable	138g (4.9oz)
Alarms Al			
Alarms Al			
Audition	Typical response times (T ₉₀)	Flammable	20s
Audition			
Multiple alarm options let you select distinctive tones for different alarm levels Visitating Due cloors red for the flashing LDSs 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 recall Seating gas concentration levels	Alarms	Audible	
Display 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 modes. Start up indication when calibration is due within 30 days, calibration overdue or service required. Display modes Normal display precall Real time gas concentration levels Datalogging Full timed data logging with adjustable sample rate, set to 1 min. data rate as default. Battery Rechargeable Lithium battery Sampling Rechargeable 12 hours minimum for flammable unit Sampling Part of 1489f (≥20°C to + 68°C) Hunidity 20-90% RH Ingress protection 1965 Approval codes North America CSA Class 1 Groups A.B.C.D Division 1 Furnipe Furnipe Flammable: IECEx BASOS.0038 Europe Flammable: ATEX II 2G Ex ind III CT 4 Gb (~200 C ≤ Ta ≤ +68°C) BASEEFAQAATEX0383 Standards safety North America CSA22.2, 152 Europe Europe Ensocrope. Ensocrope. Ensocrope. 1, ENSOC			
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 Battery Rechargeable 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 Sampling Rechargeable Lithium battery Operating time* Rechargeable 12 hours minimum for flammable unit Operating temperature range A eff to +1499f (-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 BASG5.0038 Europe Flammable: ATEX II 26 Ex is d IIC T4 Gb (-200C ≤ Ta ≤ +65°C) BASEEFAUATEX.0383 Standards safety North America (EA) 22.2 152 (EUROPS - 1, 1860079-1, 1840079-1, 18409FC) EN50079-0, 1800079-1, 1800079-1, 18409FC) Operation standards En 50079-0, 1800079-1, 1800079-1, 18409FC) EN50079-0, 1800079-1, 18409FC)			
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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 Europe CSA22.2, 152 Europe Europe EN60079-0, EN60079-11, EN60079-1, 94/9/EC Operation standards EN50270, EN50271, IEC61508, EN61779, EN45544	Battery	Rechargeable	Lithium battery
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 Europe CSA22.2, 152 EN60079-0, EN60079-11, EN60079-1, 94/9/EC Operation standards EN50270, EN50271, IEC61508, EN61779, EN45544	Operating time*	Rechargeable	12 hours minimum for flammable unit
Humidity20-90% RHIngress protectionIP65Approval codes Approval codesNorth AmericaCSA Class 1 Groups A,B,C,D Division 1InternationalFlammable: IECEx BAS05.0038EuropeFlammable: ATEX II 2G Ex ia d IIC T4 Gb (-200C ≤ Ta ≤ +65°C) BASEEFA04ATEX0383Standards safetyNorth America EuropeCSA22.2, 152 EN60079-0, EN60079-11, EN60079-1, 94/9/ECOperation standardsInternationalEN50270, EN50271, IEC61508, EN61779, EN45544	Sampling		Optional manual aspirator
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 Europe CSA22.2, 152 EN60079-1, EN60079-1, 94/9/EC Operation standards EN50270, EN50271, IEC61508, EN61779, EN45544	Operating temperature range		-4°F to +149°F (-20°C to + 65°C)
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 Europe CSA22.2, 152 EN60079-1, EN60079-1, 94/9/EC Operation standards EN50270, EN50271, IEC61508, EN61779, EN45544	Humidity		20-90% RH
North America CSA Class 1 Groups A,B,C,D Division 1	Ingress protection		IP65
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Standards safety North America Europe CSA22.2, 152 EN60079-0, EN60079-11, EN60079-1, 94/9/EC Operation standards EN50270, EN50271, IEC61508, EN61779, EN45544		International	Flammable: IECEx BAS05.0038
Europe EN60079-0, EN60079-11, EN60079-1, 94/9/EC Operation standards EN50270, EN50271, IEC61508, EN61779, EN45544		Europe	Flammable: ATEX II 2G Ex ia d IIC T4 Gb (-200C ≤ Ta ≤ +65°C) BASEEFA04ATEX0383
Operation standards EN50270, EN50271, IEC61508, EN61779, EN45544	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	PC interface		RS232 connection from interface module in charger RS232/USB converter available
Calibration GS-1 can be routinely calibrated using Portables PC software	Calibration	_	GS-1 can be routinely calibrated using Portables PC software
Accessories GS-1 is supplied with an integral alligator clip	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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