MACURCO
GAS DETECTION

MG-1

Portable Multigas Detector

- Carbon monoxide
- Hydrogen sulfide
- Oxygen
- Flammable gases

MG-1

Portable Multigas Detector

Choosing the portable gas detector for your needs

MG-1 integrates innovative safety features and an intuitive, rugged design to provide advanced protection for those working in harsh environments. This portable multigas detector, which is exceptionally easy to use and service, protects against the four most prevalent gas hazards: **carbon monoxide** (CO), **hydrogen sulfide** (H$_2$S), **flammable** gases and **oxygen** (O$_2$) depletion.

Now with improved detection of pentane and hexane

MG-1 Portable Multigas Detector

MG-1 Portable Multigas Detector

NEW **Portables Pro 2.0 Software** Easy service and configura-

The Complete Solution

From the individual contractor to the site safety manager, Macurco offers all the tools needed to manage and maintain a MG-1 fleet with ease, and stay compliant.

I-Test & I-Test Manager Bump test & calibration solutions

Comprehensive range of **accessories and charging options**

Confidence, however you look at it

MG-1 contains a wide range of features to make everyday use easier and safer:

TWA Resume function
Unique to MG-1, this innovative feature ensures toxic gas exposure is calculated accurately over an entire shift, even if MG-1 is switched off for a break or during travel to another site.

18 hour battery life
Safely work multiple or longer shifts between charges, covered by the 18 hour battery life.

Backlit display
Large, clear display with backlight and option to flip the screen 180° for easy viewing while worn.

Rugged design
With a thick anti-shock rubber casing and drop tested to ~13.125 ft (4m) on concrete, MG-1 provides dependable operation under the most demanding use. Water & dust resistant to IP65 & IP67.

Positive Safety indicator
A simple 'traffic light' status indicator which, at a glance, provides visual assurance of operational and compliance status to both users and supervisors.
Green light – Working safely
Red light – Attention required

Intrinsically safe
ATEX approved and UL Class 1 Div 1 for operation in a wide range of hazardous environments.
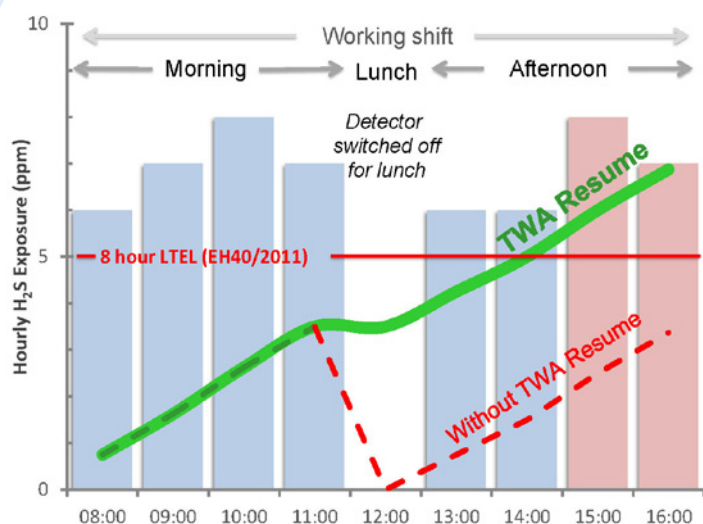
Dedicated sensors
One sensor for every gas ensures effective, fast and reliable detection.

Multiple alarms
Audible 95dB alarm, bright red/blue LED's and vibrating alerts provide effective warning to gas hazards.

Easy operation
Large single button and intuitive menu system minimizes training and allow easy operation while wearing gloves.

TWA Resume

TWA Resume* ensures time weighted average (TWA) toxic gas exposure is calculated accurately over an entire work shift.

The red line on the graph shows workers with other detectors risking overexposure to hydrogen sulfide (H_2S) by switching their detector off for a lunch break.

Only MG-1 provides the option to include previous measurements in the calculation when you switch your detector back on again and so prevent you exceeding your exposure limit. Because of TWA Resume (green line), MG-1 alarms at 14:00 when their 8 hour TWA reaches 5ppm.

Product Specification

Size		5.3 x 3.1 x 1.4in (135 x 80 x 35mm)
Weight		9.9oz (282g)
Durability		Drop tested ~13.125 ft (4m) onto concrete
Alarms	Audible Vibrating Visible	95dB Integrated Bright red & blue LED's
Display		Front mounted, backlit, 180° flip for easy viewing while worn
Logging	Data Events	130 hours of data at 10s intervals 3,500
Battery	Rechargeable Li-ion	Up to 18 hour runtime; 5.5 hour recharge
Environment	Operating temp Humidity Ingress protection	-4°F to +131°F (-20 to +55°C)* 10-95% RH @ 104°F (40°C) non-condensing Independently tested to IP65 and IP67
Compliance	EMC	Directive 2014/30/EU
Approvals	ATEX IECEx UL INMETRO MED	Ex II 2 G Ex d ia IIC T4 Gb Tamb -20°C to +55°C Ex d ia IIC T4 Gb Tamb -20°C to +55°C Use in hazardous locations Class 1 Div 1 groups A,B,C,D only as to intrinsic safety Ex d ia IIC T4 Gb Tamb -20°C to +55°C ⊚
Accessories	Included with MG-1	Integrated alligator clip and tethering loop Bump/calibration plate
	Available separately	Single unit cradle charger; 10 unit cradle charger; Vehicle charger Clip on dust filter plate I-Test automated bump test and calibration station

*Toxic and oxygen sensors are not rated for continuous operation above 122°F (50°C)

Gases and Ranges:

Gas	Range	Resolution
Oxygen (O₂)	0-30% vol.	0.1% vol.
Flammable	0-100% LEL	1% LEL
Hydrogen sulfide (H₂S)	0-100ppm	1ppm
Carbon monoxide (CO)	0-1000ppm	1ppm

User Options
*Options adjustable using Portables Pro 2.1.7 Software

TWA Resume	Latching Alarms
Calibration Interval	Peak Mode Function
Bump Interval	Custom User Message
Pellistor Saver Mode	Force Bump Test When Due
TWA/STEL Alarm	Force Calibration When Due
Low/High Alarm	Audible & Visual Confidence Alert
180° Flip Display	Auto Zero on Start Up
Event/Data Logging	Languages (11)

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

www.macurco.com

Accessories:

Cradle charger
Docking station for easy charging

10 way charger
For charging and storing your MG-1 fleet

Vehicle charger
Effective charging and storage whilst travelling

I-Test
Easy automated bump testing and calibration solution

Bump/calibration plate
To apply test gas to MG-1

NEW Portables Pro 2.0 Software
For easy configuration and servicing

External filter plate
Clip-on filter for dusty environments

Aspirator plate
Sample atmosphere prior to entry

MACURCO
GAS DETECTION
©2016. Crowcon Detection Ltd.