

# ZELLWEGER MGS4U MINI GAS MONITOR



## GENERAL DESCRIPTION

The Minigas Mk5 portable gas detector is able to monitor and display up to four gases simultaneously. These include oxygen and flammable gases as well as a range of toxic gases such as hydrogen sulphide or carbon monoxide. Minigas Mk5 uses high specification sensors and patented Heartbeat technology to ensure safe, accurate and reliable measurements are always made.

Minigas Mk5 is a compact and rugged detector designed specifically for tough environments. It's small and slim-line design ensures entry and exit from confined spaces is not hampered while the impact and chemical resistant housing ensures it is built to take the knocks of every day use. Minigas Mk5 has two large ultra-bright lights that flash vigorously in an alarm condition to maximise visibility. A powerful two-tone audible alarm allows the Minigas Mk5 to be used in applications where the ambient noise level is high. A periodic green flash and bleep provides user confidence that monitoring is always in operation.

High performance rechargeable or disposable dry cell batteries maximise operating life between recharge or battery replacement. In standby operation battery life is 4 times longer. Data and event logging allows real information to be downloaded and analysed in any spreadsheet via LogView software.



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OCEANSCAN LIMITED  
DENMORE ROAD, BRIDGE OF DON, ABERDEEN,  
SCOTLAND, U.K., AB23 8JW  
TEL; +44(0)1224 707000, FAX: +44(0)1224 707001  
Email: [rental@oceanscan.co.uk](mailto:rental@oceanscan.co.uk), Website: [www.oceanscan.co.uk](http://www.oceanscan.co.uk)  
Accredited to BS EN ISO 9001:2000

# ZELLWEGER MGS4U MINI GAS MONITOR

## TECHNICAL SPECIFICATIONS

### Easy to maintain

- No need to dismantle whole instrument
- Replaceable filters
- Plug in sensors
- "EasyCa" allows simple pushbutton calibration
- Economical ownership

### Reliable operation

- High specification sensors
- Stable and accurate
- Meets the latest standards
- "Heartbeat" continuously monitored for detectable faults
- Intrinsically safe

### Powerful audible alarm

- Loud and clear two-tone alarm
- Cannot be ignored

### Two ultra-bright alarm lights

- Confidence flash for peace of mind
- Rapid flashing alarm demands attention
- Wide viewing angle

### Very clear backlit display

- Manual on/off when required
- Automatically lights up on alarm

### Flexible battery design

- NiMH rechargeable for maximum performance
- Dry cell disposable for ultimate convenience

### Durable housing

- Rugged and impact resistant
- Weatherproof (third party tested)
- Chemical resistant
- Slimline design for use in confined spaces

### Large pushbuttons

- Easy to use with gloves on
- Adjustment for alarm levels and calibration

### Large display

- Simultaneous display of all 4 gases
- Easy to see in both light and dark conditions
- "Go, no-go" option
- Clear alarm indication

Use:	Simultaneous monitoring of up to four gases including flammable, oxygen and toxic gases
Technique Flammable:	Pellistor (catalytic bead). Oxygen and toxic: High specification electrochemical sensors
Gases and ranges:	Oxygen 0–35% VOL (certified IS to 21% VOL) Flammable 0–100% LEL (5% VOL methane) Carbon monoxide 0–1000 ppm Carbon dioxide 0–3% VOL Hydrogen sulphide 0–500 ppm Chlorine 0–100 ppm Sulphur dioxide 0–100 ppm
Accuracy/repeatability:	Sensor dependant. Contact Zellweger Analytics for details.
Alarm set points:	Instantaneous, STEL and LTEL alarms to meet international standards as required
Response time ( $T_{\text{alarm}}$ )	Sensor dependant. Typically 10 seconds. Contact Zellweger Analytics for details.
Sensor operating life:	Flammable: 36 months Toxic: 24 months Oxygen: 18 months
Calibration:	Recommended at 6 monthly intervals
Functional testing:	As required by site procedures
Datalogging:	40 hours data storage with dedicated PC based software package for data analysis
Operating temperature:	-20°C to +50°C / -4°F to +122°F
Construction:	Zinc die cast alloy with protective sleeve for maximum impact protection
Ingress protection:	IP65 (NEMA 4X)
Dimensions (approx.):	55 mm x 87 mm x 190 mm / 2.2" x 3.5" x 7.5" 63 mm x 72 mm x 226 mm / 2.5" x 3" x 9" pumped version only
Battery performance:	<b>NiMH rechargeable</b> 21 hours (x4 in standby mode) <b>Dry cell (4 x AA alkaline type)</b> 46 hours (x4 in standby mode)
Weight:	870 g (31 oz) 780 g (28 oz) excluding batteries
Approvals:	Europe: BASEEFA EEx ia IIC T3/4 (certified IS up to +40°C, T3 for NiMH, T4 for dry cell) North America: CSA NRTL/C Class 1, Div 1 Groups A, B, C, D Australia: SAA Ex ias I/IIC T4
Audible alarm:	80 dBA at 1 m (90 dBA at 1 ft)
Visual alarm:	Two ultra-bright status indicators providing intermittent confidence flash and rapid flash for alarm indication with wide viewing angle



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