

MICRO IV

Single gas detector with data-logger and infrared interface



- Ultra-bright optical alarm and loud audible alarm (95 dB)
- Data logger records event data, TWA and STEL values
- Infrared interface for data transfer to the docking station
- Quick calibration and function test via docking station
- Up to 6 months continuous operation (24 h/day) with one AA-battery
- ATEX approved
- Available for a wide range of toxic gases, oxygen and hydrogen
- Optional: plug-on sampling pump
- 3 year warranty

Worldwide Supplier of Gas Detection Solutions



MICRO IV with docking station for fastest calibration, bump test and data transfer to PC

The **MICRO IV** is the latest version of the single gas monitor from GfG. In addition to its simple operation, powerful alarms and durability, the **MICRO IV** now offers a large internal datalogging memory and an IR interface to GfG's revolutionary new docking station.

Simplest operation

The docking station reduces the daily time required for calibration and functional test (bump test) dramatically.

Operation is quick and easy using a **simple traffic light system**:

- Red = failure**
- Yellow = test running**
- Green = device ok!**

Due to its compact size the station can be placed almost anywhere. No further modules or master stations are necessary.

The **event memory** saves all important data:

- When was alarm triggered? (time)
- Which alarm was triggered? (A1, A2, A3, TWA, STEL value)
- Which gas concentration was present?

The **MICRO IV docking station** is a new concept in device management systems, which drastically reduces cost of ownership and duration of calibration.

The docking station checks acoustic and optical alarm functions, device errors, alarm thresholds and response times of the **MICRO IV**.

The bump-test comprises:

- Response time t_{90}
- Alarm thresholds
- Alarms (optical and acoustic)
- Device software
- Device and software identification
- Device errors

Up to 6 **MICRO IV** can be checked for functionality (bump-test) and be calibrated simultaneously.



Simple device management via PC



Docking station

MICRO IV – Technical data

<p>Detection principle Electrochemical</p> <p>Gas supply Diffusion / pump (optional)</p> <p>Temperature range -20 to 55°C</p> <p>Humidity range 5 to 99% r. h. non condensing</p> <p>Pressure range 700 to 1300 hPa</p> <p>Dimensions 47 x 88 x 25 mm (WxHxD)</p> <p>Weight 61 – 85 g (with pump)</p>	<p>Power supply One single dry cell AA-battery</p> <p>ATEX-Approval Ⓢ II 2G EEx ib IIC T3/T4 -20°≤Ta≤+45°/+55°</p> <p>Alarms 3 alarm levels, battery alarm, TWA, STEL Optical: 2 LEDs, 360° visible Acoustic: 95 dB (30cm)</p> <p>Data logger Saves up to 60 events with gas concentration. Event No. 61 overwrites oldest event. Saved data can be downloaded to a PC</p> <p>Accessories Plug-on sampling pump, holster, docking station</p>	<table border="1"> <thead> <tr> <th colspan="3">Gases and detection ranges</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>Carbon Monoxide</td> <td>300 / 1000 / 2000 ppm</td> </tr> <tr> <td>H₂S</td> <td>Hydrogen Sulphide</td> <td>100 ppm</td> </tr> <tr> <td>O₂</td> <td>Oxygen</td> <td>25 %Vol.</td> </tr> <tr> <td>C₂H₄O</td> <td>Ethylene Oxide</td> <td>20 ppm</td> </tr> <tr> <td>ClO₂</td> <td>Chlorine Dioxide</td> <td>2 ppm</td> </tr> <tr> <td>COCl₂</td> <td>Phosgene</td> <td>1 ppm</td> </tr> <tr> <td>H₂</td> <td>Hydrogen</td> <td>4 %Vol. / 2000 ppm</td> </tr> <tr> <td>HCN</td> <td>Hydrogen Cyanide</td> <td>30 / 100 ppm</td> </tr> <tr> <td>NH₃</td> <td>Ammonia</td> <td>200 ppm</td> </tr> <tr> <td>NO</td> <td>Nitrogen Monoxide</td> <td>100 ppm</td> </tr> <tr> <td>PH₃</td> <td>Phosphine</td> <td>10 ppm</td> </tr> <tr> <td>SiH₄</td> <td>Silane</td> <td>20 ppm</td> </tr> <tr> <td>SO₂</td> <td>Sulphur Dioxide</td> <td>10 ppm</td> </tr> <tr> <td>THT</td> <td>Tetrahydrothiophene</td> <td>100 mg/m³</td> </tr> <tr> <td>Cl₂</td> <td>Chlorine</td> <td>10 ppm</td> </tr> <tr> <td>NO₂</td> <td>Nitrogen Dioxide</td> <td>30 ppm</td> </tr> <tr> <td>O₃</td> <td>Ozone</td> <td>1 ppm</td> </tr> </tbody> </table>	Gases and detection ranges			CO	Carbon Monoxide	300 / 1000 / 2000 ppm	H ₂ S	Hydrogen Sulphide	100 ppm	O ₂	Oxygen	25 %Vol.	C ₂ H ₄ O	Ethylene Oxide	20 ppm	ClO ₂	Chlorine Dioxide	2 ppm	COCl ₂	Phosgene	1 ppm	H ₂	Hydrogen	4 %Vol. / 2000 ppm	HCN	Hydrogen Cyanide	30 / 100 ppm	NH ₃	Ammonia	200 ppm	NO	Nitrogen Monoxide	100 ppm	PH ₃	Phosphine	10 ppm	SiH ₄	Silane	20 ppm	SO ₂	Sulphur Dioxide	10 ppm	THT	Tetrahydrothiophene	100 mg/m ³	Cl ₂	Chlorine	10 ppm	NO ₂	Nitrogen Dioxide	30 ppm	O ₃	Ozone	1 ppm
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Data interface DI 220

GfG Europe Ltd.



Data interface DI 220 for MICRO IV

- MICRO IV data memory read-out, contactless by IR-Interface
- Calibration by testgas
- Data transfer by USB-Hardware interface to a PC
- Device configuration
- Processing by chart and graph software
- Installation CD

No.	Description	Art.-No.
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10	Data read-out and transfer module incl. calibration function for MICRO IV	1319204
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Worldwide Supplier of Safety Solutions



Sampling Pump for Micro IV



- Slide-on pump
- Extremely powerful
- For up to 8 hours continuous operation
- Powered by two common AA batteries

GfG introduces an independently powered high performance pump, which slides easily on the Micro III and allows to take gas samples from inaccessible areas. The pump is powerful enough for taking samples through a long hose. Just push a button to turn the pump on or off.



Technical Data of Pump

Pump performance

0.50 l/min at 0 mm water column
0.40 l/min at 200 mm water column
0.35 l/min at 350 mm water column

Alarm

visual battery alarm,
visual alarm for insufficient minimum flow

Operational time

up to 8 hours continuous operation (depending on load) or up to 2 years when turned off

Temperature

-20 to +50°C for operation
-25 to +55°C for storage

Power supply

2 batteries Mignon type AA 1.5 V

Operation

1 button for turning on and off

Enclosure

Polycarbonat, metalized
Weight: 97 g
Dimensions: 43 x 92 x 32 mm (WxHxD)
IP 40

Indication

Green LED

Ex-protection

EEx ia IIC T4
BVS 02.E.2005x

Part No. 1318215

Spare parts and accessories

Description	Part No.
Battery Duracell MN 1500 LR6	1318201
Battery compartment with fuse (without batteries)	1318340
Telescopic probe CrNi steel 1.36m	1000205
Special dust and water filter, pack of 3	1000207
Special sampling line 3 m, anti-static, with dust and water filter	1000208
Special sampling line 3 m, anti-static, with dust and water filter and flow indicator	1000209
Viton hose, resistant against solvents and hydrogen sulfide	1000217
Float probe	1000218