

# micr r a n g e

# MEGAProtection

*Single gas detector for toxic gases and oxygen*



**MICRO IV**



**MICRO III**

- Extremely lightweight and small
- Ultra bright alarm lights and loud audible alarm
- Smart Sensor technology
- EEXibIICT6/T5
- Recording event data, TWA & STEL values in data logger
- Infrared Interface for data transfer to the docking station
- Upto 9 months continuous operation with one AA-battery

*Gas Detection - The most reliable way*





## Micro III - The smallest single-gas detector

### Small, light and robust

The Micro III is an extremely small instrument compared to other detectors. Micro III weighs just 61g. It can comfortably fit into a shirt pocket. A built-in clip secures the MICRO III safely to a belt or pocket. The casing is extremely shock and scratch resistant. The protection type IP 56 indicates that the instrument is sealed against dust and water. The MICRO III uses the AQUA-SHIELD (accessory sensor inlet) which ensures that the monitor will provide excellent performance in harsh conditions.

### More protection through easier operation

The G201 and the C202 is produced without buttons or switches. Therefore an operating error is completely eliminated.

## Micro IV - With docking station for quickest calibration, function test and data transfer to a PC

The Micro IV is the state of the art derivative of the well known single gas detector MICRO III. Besides its simple operation and reliable warning the flexible device convinces because of its large memory, an IR interface and the revolutionary docking station.

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 trendsetting device management system, which enormously reduces cost of ownership and duration of the calibration. The docking station checks the 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 utilizability (bump-test) and be calibrated simultaneously.

### Plug-in smart sensor

The plug-in smart sensor can be easily replaced. The MICRO III recognizes the new sensor type another measuring gas, detection range, calibration curve, as well as alarm threshold values.

**Numerous features** The MICRO III comes standard with many features including automatic zeroing, auto calibration, confidence beep, battery check, and three factory set alarm points.

The following models are available:

**G201** with loud alarm horn and bright alarm lamp.

**C 202/C 212** as **G 201**, additional: display for gas concentration, battery capacity and service control.

**G 203/G 213** as **G 202**, additional peak / minimum calibration. TWA/STEL, control keys for display light and service functions.

### Simplest operation

The docking station reduces the daily time involved for calibration and function test (bump test) dramatically. All ready few calibrations and function checks annually reduce the cost of ownership considerably.

The uncomplicated and quick operation in connection with the self-describing traffic lights signals prevent from user mistakes. Due to the compact size the station can be placed almost everywhere without any problems. No further modules or master stations are necessary.



**Loud audible alarm** The audible alarm of the MICRO III has a changing frequency. Machinery noises do not interfere with the horn signal. The flashing LEDs indicate a gas alarm. The LEDs are visible at 360°. The three alarm levels and the battery alarm are clearly distinguishable.

**Up to 9 months operations** One single AA battery powers permanent operation. The battery can be replaced easily. Once the battery has been changed, the MICRO III is ready for another 9 months after a short warm-up time.



## Sampling pump

An electrical high-performance pump will take samples of gas from mines or tanks. The pump replaces the battery cover and is a fixed part of the instrument with its own power supply. The operation of the pump will have no influence on the operation time.

- Slide on pump • For up to 8 hours continuous operation
- Extremely powerful • Power Supply 2 batteries AA 1.5V
- Operation One button for turning on and off. • Weight 97 g
- EC type approval • Telescopic probe • Float probe
- Special sampling line 3 m.



Technical Data	Micro III	Micro IV
Detection principle	Electrochemical sensor	
Gas sampling	Diffusion/pump (Option)	
Alarms	3 Alarm thresholds battery alarm TWA/STEL Optical: 2 LED 360° visible Acoustic: 95dB(30cm)	
Temperature range	-20°C to +50°C	
Humidity	5 to 99% r.h.	
Ambient pressure	700 to 1300 hPa	
Dimensions & Weight	47 x 88 x 25mm (WxHxD) / 61 -85g	
Power supply	One single dry cell battery (AA 1.5 V)	
Data Logger	TWA / STEL value	Save up to 60 events with gas concentration
Approvals	EEx ib IIC T6/T5 ATEX F IIC G/CE	EEx 2G EEx ib IIC T4/T3 ATEX @ IIC G

Gases & Detection ranges		
CO	Carbon monoxide	300/500/1000/2000 ppm
H <sub>2</sub> S	Hydrogen sulphide	100/500 ppm
O <sub>2</sub>	Oxygen	2-5% Vol.
C <sub>2</sub> H <sub>4</sub> O	Ethylene oxide	20 ppm
ClO <sub>2</sub>	Chlorine dioxide	2 ppm
COCL <sub>2</sub>	Phosgene	1 ppm
H <sub>2</sub>	Hydrogen	1%/4% vol./2000 ppm
HCN	Hydrogen cyanide	30/50/100 ppm
NH <sub>3</sub>	Ammonia	200 ppm
NO	Nitrogen monoxide	100 ppm
PH <sub>3</sub>	Phosphine	10 ppm
SiH <sub>4</sub>	Silane	20 ppm
SO <sub>2</sub>	Sulphur dioxide	10 ppm
THT	Tetrahydrothiophene	100 mg/m <sup>3</sup>
Cl <sub>2</sub>	Chlorine	10 ppm
NO <sub>2</sub>	Nitrogen dioxide	30 ppm
O <sub>3</sub>	Ozone	1 ppm
HCL	Hydrogen chloride	30 ppm

Specification Subject to change without prior notice



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