

# MICRO IV

Single gas detector with data-logger and infrared interface



- Bright optical alarm and loud horn (95 dB)
- Recording event data, TWA and STEL values in data logger
- Infrared interface for data transfer to the docking station
- Quick calibration and function test by docking station
- Up to 6 months continuous operation (24 h/day) with one AA-battery
- ATEX approval
- For toxic gases, Oxygen and Hydrogen
- Option: plug-on sampling pump

**Worldwide Supplier of Gas Detection Solutions**



# 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.

## Simplest operation

The docking station reduces the daily time involved for calibration and function test (bump test) dramatically. Already 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.

**Red = failure**  
**Yellow = test running**  
**Green = device okay!**

Due to the compact size the station can be placed almost everywhere without any problems. No further modules or master stations are necessary.



Simple device management via PC



Docking station

## MICRO IV – Technical data

### Detection principle

Electrochemical

### Gas supply

Diffusion / pump (optional)

### Temperature range

-20 .. 55°C

### Humidity

5 .. 99% r. h. non condensing

### Pressure

700 .. 1300 hPa

### Dimensions

47 x 88 x 25 mm (WxHxD)

### Weight

61 – 85 g

### Power supply

One single dry cell AA-battery

### ATEX-Approval

⊗ II 2G EEx ib IIC T3/T4 -20°≤T<sub>a</sub>≤+45°/+55°

### Alarms

3 alarm thresholds, battery alarm, TWA, STEL  
 Optical: 2 LED, 360° visible  
 Acoustic: 95 dB (30cm)

### Data logger

saves up to 60 events with gas concentration.  
 Event No. 61 overwrites oldest event.  
 The saved data can be downloaded to a PC

### Accessories

plug-on sampling pump, holster, docking station

## Gases and detection ranges

CO	Carbon Monoxide	300 / 1000 / 2000 ppm
H <sub>2</sub> S	Hydrogen Sulphide	100 ppm
O <sub>2</sub>	Oxygen	25 %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	4 %Vol. / 2000 ppm
HCN	Hydrogen Cyanide	30 / 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



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