

# Micro IV Series

## Single-gas Detector



Shown with rubber boot

- O<sub>2</sub>, H<sub>2</sub>S, CO, NH<sub>3</sub>, SO<sub>2</sub>, Cl<sub>2</sub>, PH<sub>3</sub>, NO<sub>2</sub>, HCN, ETO, ClO<sub>2</sub>, HF, O<sub>3</sub>, NO, H<sub>2</sub>
- Compact and affordable
- Real-time gas concentrations
- Datalogging / event logging standard
- Auto zero and calibration
- Optional docking station

# Micro IV with docking station for quick calibration, function testing, and data transfer to PC

The Micro IV is the state of the art successor to the well-known Micro III single-gas detector. In addition to its simple operation and reliable warning system, the flexible device supersedes all other single-gas detectors due to its large memory, an IR interface and a revolutionary docking station.

Event memory saves all important data:

- Time of alarm trigger
- Type of alarm triggered (A1, A2, A3, TWA, STEL value)
- Gas concentration present

The Micro IV docking station is a trendsetting device management system that greatly reduces cost of ownership and time needed for calibration. The docking station checks acoustic and optical alarm functions, device errors, alarm thresholds, and response times for the Micro IV. The bump-test comprises:

- Sensor response time  $T_{90}$
- Alarm thresholds
- Alarms (optical and acoustic)
- Device software
- Device and software identification
- Device errors

Up to 6 Micro IVs can be simultaneously calibrated and checked for proper functioning (bump-test).

## Simplest operation

The docking station dramatically reduces the daily time needed for calibration and function testing (bump test) reducing the annual cost of ownership.

Uncomplicated and quick operation in connection with self-describing "traffic light" signals prevent user errors.

Red = Failure  
Yellow = Test running  
Green = Device okay!

Due to its compact size the docking station can be placed almost anywhere without any problems. No additional modules or master stations are necessary.

Device Type	Serial No	Last Test	Last Calibration	Last Repairing	Inventory No
MICRO IV	8732494375	2005-04-10 08:52	2005-04-01 07:00	--	015
MICRO IV	8947613598	2005-06-17 06:59	2005-04-01 07:10	2005-01-01 07:00	020
MICRO IV	4560546578	2005-08-19 06:00	2005-08-01 07:00	--	005
MICRO IV	8965462145	2005-09-15 17:13	2005-02-13 09:00	2005-06-25 15:44	019
MICRO IV	8947613598	2005-06-17 06:59	2005-04-01 07:10	2005-01-01 07:00	023
MICRO IV	4560546578	2005-08-19 06:00	2005-08-01 07:00	--	115
MICRO IV	8985462145	2005-09-15 17:13	2005-02-13 09:00	2005-06-25 15:44	654
MICRO IV	8947613598	2005-06-17 06:59	2005-04-01 07:10	2005-01-01 07:00	215
MICRO IV	4560546578	2005-08-19 06:00	2005-08-01 07:00	--	006
MICRO IV	8985462145	2005-09-15 17:13	2005-02-13 09:00	2005-06-25 15:44	080
MICRO IV	4560546578	2005-08-19 06:00	2005-08-01 07:00	--	002
MICRO IV	8985462145	2005-09-15 17:13	2005-02-13 09:00	2005-06-25 15:44	879
MICRO IV	8947613598	2005-06-17 06:59	2005-04-01 07:10	2005-01-01 07:00	635
MICRO IV	4560546578	2005-08-19 06:00	2005-08-01 07:00	--	020
MICRO IV	8985462145	2005-09-15 17:13	2005-02-13 09:00	2005-06-25 15:44	111
MICRO IV	8947613598	2005-06-17 06:59	2005-04-01 07:10	2005-01-01 07:00	123

Simple device management via PC



# Technical Data

## Micro IV series

### Gases and ranges

Ammonia (NH <sub>3</sub> )	500 ppm
Carbon monoxide (CO)	300 / 1,000 / 2,000 ppm
Chlorine dioxide (ClO <sub>2</sub> )	2 ppm
Chlorine (Cl <sub>2</sub> )	10 ppm
Ethylene oxide (C <sub>2</sub> H <sub>4</sub> O/ETO)	20 ppm
Hydrofluoric (HF)	20 ppm
Hydrogen sulfide (H <sub>2</sub> S)	100 ppm
Hydrogen (H <sub>2</sub> )	4 % volume / 2,000 ppm
Hydrogen cyanide (HCN)	30 / 100 ppm
Nitrogen monoxide (NO)	100 ppm
Nitrogen dioxide (NO <sub>2</sub> )	30 ppm
Oxygen (O <sub>2</sub> )	25 % volume
Ozone (O <sub>3</sub> )	1 ppm
Phosgene (COCl <sub>2</sub> )	1 ppm
Phosphine (PH <sub>3</sub> )	10 ppm
Silane (SiH <sub>4</sub> )	20 ppm
Sulphur dioxide (SO <sub>2</sub> )	10 ppm
Tetrahydrothiophene (THT)	100 mg/m <sup>3</sup>

### Detection principle

Electrochemical

### Gas supply

Diffusion / pump (optional)

### Temperature range

-4 to +122°F / -20 to +55°C

### Humidity range

5 to 99% r.h. (non-condensing)

### Pressure range

700 to 1,300 hPa

### Dimensions

3.5x1.85x1 inches (88x47x25 mm) (HxWxD)

### Weight

2-4 ounces (61-85 g)

### Power supply

One single alkaline AA-battery

### Alarms

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

### Datalogger

Saves up to 60 events with gas concentration.  
Event number 61 overwrites oldest event.  
Saved data can be downloaded to a PC.

### Accessories

Plug-in sampling pump, docking station

### Ratings and certifications (intrinsic safety)

ATEX II 2G EEx ib IIC T3/T4 -4°≤T<sub>a</sub>≤+113°/122°F  
(-20°≤T<sub>a</sub>≤+45°/+55°C)

Specifications subject to change without notification

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