smart
GasDetection
Technologies

GfG

Micro IV G200

Single gas detector for hydrogen, oxygen and toxic gases

MADE IN
GERMANY

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Size comparison between the Polytector G999 multi-gas detector and the Micro IV

Small, light and robust
The Single-gas detector MICRO IV is the state-of-the-art successor to MICRO III. The MICRO IV is the optimum solution for personal protection from toxic gases and vapours. It is very small and light, and a crocodile clip secures it safely on a belt or pocket. The housing is extremely shock and scratch resistant. Of course the MICRO IV is approved for use in explosion endangered areas.

Plug-in Smart sensors
The plug-in sensors are pre-calibrated and can be replaced easily. The MICRO IV recognizes the new sensor type, measuring gas, detection range, calibration curve as well as alarm threshold values. Only one minute after sensor replacement the MICRO IV is ready for operation.

Alarm thresholds
The MICRO IV provides 3 programmable alarm thresholds for toxic gases. The warning occurs when the programmed values are exceeded. For toxic gases the MICRO IV provides additional alarms for exceeded STEL or TWA values.

Audible alarm (95 dB(A))

The audible alarm of the MICRO IV is noticeable even in noisy environments. The sound frequency changes to avoid confusion with machine noise. The three alarm levels can be distinguished by different frequencies.

Visual alarm

Two extremely bright flashing LEDs indicate gas alarm. The alarm levels are distinguished by different flashing frequencies.

Event logger

The data logger saves up to 200 events. Alarm thresholds A1, A2, A3 as well as STEL and TWA are stored together with time and gas concentration. Data is stored continuously, old data is overwritten.

Infrared interface

The MICRO IV provides an infrared interface for data transfer via PC, the data interface, for quick device configuration or via dockingstation, which allows execution of the daily bump test as well as calibration/adjustment automatically in a very short time.

Continuous operation up to 9 months

The MICRO IV measures and monitors gases continuously for up to 9 months using only one alkaline battery. The battery can be replaced easily. After battery replacement the MICRO IV is immediately ready for operation. The MICRO IV indicates the battery capacity; insufficient battery capacity triggers a „low-battery" alarm.

Gases and detection ranges

The MICRO IV detects a wide range of toxic gases, hydrogen and oxygen by means of electrochemical sensors.

Gas	Formula	Measuring range
Ammonia	NH_3	0 to 200 ppm
Chlorine	Cl_2	0 to 10 ppm
Chlorine dioxide	ClO_2	0 to 2 ppm
Hydrogen chloride	HCl	0 to 30 ppm
Hydrogen cyanide	HCN	0 to 30 ppm 0 to 100 ppm
Ethylene oxide	C_2H_4O	0 to 20 ppm
Hydrogen fluoride	HF	0 to 10 ppm
Carbon monoxide	CO	0 to 300 ppm 0 to 1,000 ppm 0 to 2,000 ppm
Ozone	O_3	0 to 1 ppm
Phosgene	$COCl_2$	0 to 1 ppm
Phosphine	PH_3	0 to 10 ppm
Oxygen	O_2	0 to 25 Vol.-%
Nitrogen dioxide	NO_2	0 to 30 ppm
Sulphur dioxide	SO_2	0 to 10 ppm
Hydrogen sulphide	H_2S	0 to 100 ppm 0 to 500 ppm
Silane	SiH_4	0 to 20 ppm
Nitrogen monoxide	NO	0 to 100 ppm
Tetrahydrothiophene (THT)	C_4H_8S	0 to 100 mg/m³
Hydrogen	H_2	0 to 4 Vol.-% 0 to 2,000 ppm

Readout device
Data Interface DI220

Data Interface DI220

The DI220 data interface forms part of a device management system. The DI220 can be used to quickly and easily configure a Micro IV instrument, and to transfer stored data from the instrument via IR communication. The DI220 is supplied with a USB connection cable suitable for any PC. It is small, portable and can be quickly and easily set up in the smallest workspace. Instrument handling is greatly simplified, also bump and/or calibration performed quickly to ensure safe operation of the instrument.

Technical data: Micro IV G200 / DI220

Micro IV G200

Measuring principle:	Electrochemical (EC)
Gases:	Toxic gases, Oxygen and Hydrogen
Gas supply:	via diffusion opening
Alarmierung:	**Alarms:** 3 threshold alarms, battery alarm, STEL, TWA **Visual:** 2 LEDs, 360° visible **Audible:** 95 dB (A) (30 cm)
Data logger:	» Saves up to 128 events with gas concentration, event No. 129 overwrites oldest event » Stored data can be downloaded to a PC with date and time
Power supply:	One AA battery – type DURACELL PROCELL MN 1500 LR6 AA
Operational time:	up to 6 months
Climatic conditions:	-20 to +50 °C | 5 to 99 % r. h. | 70 to 130 kPa
Housing: Material: Dimensions: Weight: Protection class:	 ABS, 3-times metallised 47 x 88 x 25 mm (W x H x D) 85 g IP54
Approvals / Certifications: Markings and type of protection: EC-type examination certificate:	 ⟨Ex⟩ II 2G EEx ib IIC T4/T3 −20 °C ≤ Ta ≤ +45 °C/+55 °C DMT 99 ATEX E 044

Data Interface DI220

Slots:	1
Power supply:	via USB-interface
Gas supply:	by pressure of the gas tank 0.5 l/min
Gas disposition:	
Gas adapter:	
Interface:	USB-Interface
Operating elements:	
Indication of test result:	only by means using the software
Software:	on data carrier for reading out the data and configuring/calibrating the Micro IV
Housing: Material: Dimensions: Weight:	 Plastic 95 x 92 x 55 mm (W x H x D) 0.3 kg
Approvals / Certifications: Electromagnetic compatibility:	

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