



PORTABLE GAS DETECTORS

MICRO III



A single component detector which is the right pocket detector thanks to its small dimensions, sturdiness, and low weight. The ambient gas concentration is measured with short response by means of an electrochemical sensor. A version with an internal pump is available as special equipment for aspiration of the measured gas. Three limit alarm values with optical and acoustic (internal siren, 95 dB) signalling for all models. Their adjustments depend on the measured gas. A great advantage is also the common (AA) battery feeding which enables continuous operation up to 9 months under usual conditions. MICRO III requires nearly no maintenance; the sensor can easily be replaced by a new one. The device will detect the new sensor type, measured gas, measuring range, calibration curve, and set the alarm limits by itself.

It is available in three models:

- G201** – no display, used as a personal protective detector with adjustable limit value.
- G202** – with a 3-digit display for easy reading of gas component concentration, battery level and function control.
- G203** – with a display, function buttons for reading of the the highest measured value, illuminated display

Technical data :

Weight	max. 75 g	Gas inlet	diffuse
Dimensions	47 x 88 x 25 mm	Operation temperature	- 20 ... +40 °C
Operation	9 months	Humidity	5 ... 98% r. hum.
Protection	EEx ib IIC T5	Pressure	800 ... 1200 hPa

MICRO III G 201		
Gas	Note	Range up to
O ₂	sensor 1 year	25 %
H ₂ S		100 ppm
CO		300 ppm

MICRO III G 202 a G 203					
Gas	Note	Range up to	Gas	Note	Range up to
O ₂	sensor 1 year	25 %	HCl		30 ppm
O ₂	sensor 2 years	25 %	HCN		50 ppm
CO		300 ppm	NH ₃	sensor 1 1/2 year	200 ppm
CO	insensitive to H ₂ S	300 ppm	NH ₃	sensor 2 years	200 ppm
CO	plus H ₂ S signalling	300 ppm	C ₂ H ₄ O		20 ppm
CO	insensitive to H ₂ S	500 ppm	PH ₃		10 ppm
CO		1000 ppm	SiH ₄		20 ppm
CO		2000 ppm	COCL ₂		1 ppm
H ₂ S		100 ppm	NO		100 ppm
H ₂ S		500 ppm	NO ₂		30 ppm
SO ₂		10 ppm	H ₂		2000 ppm
Cl ₂		10 ppm	H ₂		1 %
ClO ₂		2 ppm	H ₂		4 %
			O ₃		1 ppm

Pump for the MICRO III detector !!!



- the pump can be easily connected to the detector
- extremely efficient
- operation time up to 6 hours
- pump power supply 2 batteries (AA)
- output 0,5 l/min at 0 mbar
0,4 l/min at 20 mbar
0,35 l/min at 35 mbar
- gases can be measured in inaccessible places such as channels or enclosed places

An easily connectable gas pump which makes it possible to measure gas concentration in inaccessible places is available as optional equipment. The pump has sufficient output even for longer distances. The only thing is to push the ON button.

MICROTECTOR G333



The device can be used whenever a small detection device for measuring of 1 to 4 gas components is necessary. Its low weight and its small dimensions are its main advantage. The possibility of displaying the momentary value as well as the 8-hours mean value is one of its features useful for workplace protection. Up to 3 alarm limit values can be set for each gas and maximum concentrations after 15 minutes or 8 hours can be checked. The alarm is started acoustically and optically by means of visible LEDs.

- temperature and gas compensation
- quick response
- easy operation

Sensors : O₂, CO, H₂S, CH₄,

Technical data :

Weight	360 g	Gas inlet	diffuse
Dimensions	59 x 120 x 34 mm	Operation temp.	- 20 +50 °C
Operation	up to 16 hours	Humidity	20 98% r. hum.
Protection	EEx ib IIC T4	Pressure	800 1300 hPa

POLYTECTOR G750

POLYTECTOR G750 is a modular device, which means that it can be widely used as a measuring and a protective detection device. It can be equipped with up to 6 sensors for different gases (see the table below). It weighs only 660 750g with full equipment including the internal pump, which means easy operation and work control. Your hands will stay free for work if the bearing strap is used. Without the pump the device can be used as personal protection in the workplace. The internal pump in combination with the aspiration probe and the connection piping with a gas filter option enables air aspiration from canals, shafts, or reservoirs. The filter is placed in front of the device input to prevent mechanical impurities from intruding into the device. Up to 3 adjustable alarm limits for individual gas concentrations are signalled acoustically (headphone output for noisy surroundings), optically by a big flashing LED, or by a vibrator.



- ◆ 1 to 6 gases can be measured at the same time and the current value can be read on the display
- ◆ easy operation
- ◆ diffuse measurement or pumping of the measured gas by means of the internal pump
- ◆ up to 3 alarm limits for each measured gas, maximum / minimum value memory, long-time / short-time values
- ◆ the slip-on sensors have their own calibration

A datalogger which helps you to save the measured data is available as optional equipment. You can view these data on your PC by virtue of the delivered program. This device offers you almost endless possibilities for measured data processing and archiving.

Technical data :

Weight	660 ... 750 g
Dimensions	90 x 199 x 60 mm
Operation	7 ... 14 hours
Protection	EEx ib d IIC T5
Gas inlet	diffuse / internal pump
Operation temperature	- 10 +50 °C
Humidity	0(20) 98% r. hum.
Pressure	800 1300 hPa

POLYTECTOR II G 750					
Oxygen - elektrochemical sensor					
<i>Gas</i>	<i>Note</i>	<i>Range up to</i>	<i>Gas</i>	<i>Note</i>	<i>Range up to</i>
O ₂	operating life 1 year	25 %	O ₂	operating life 2 years	25 %
Toxic gases - elektrochemical sensor					
<i>Gas</i>	<i>Note</i>	<i>Range up to</i>	<i>Gas</i>	<i>Note</i>	<i>Range up to</i>
CO	selective	500 ppm	SO ₂		20 ppm
CO	sensitivity to H ₂ S	500 ppm	PH ₃		10 ppm
CO		500 ppm	HCN		100 ppm
H ₂ S		50 ppm	SiH ₄		20 ppm
H ₂ S		100 ppm	H ₂		2000 ppm
NH ₃		200 ppm	H ₂		2 %
NH ₃		1000 ppm	NO		100 ppm
NO ₂		50 ppm	Cl ₂		10 ppm
Inflammable gases – catalytic combustion / thermal conductivity					
<i>Gas</i>	<i>Note</i>	<i>Range up to</i>	<i>Gas</i>	<i>Note</i>	<i>Range up to</i>
CH ₄		100% DMV	CH ₄		100% DMV + 100%
C ₃ H ₈		100% DMV	C ₃ H ₈		100% DMV + 100%
C ₇ H ₁₆		100% DMV	C ₇ H ₁₆		100% DMV + 100%
C ₉ H ₂₀		100% DMV	C ₉ H ₂₀		100% DMV + 100%
H ₂		100% DMV	H ₂		100% DMV + 100%
CO₂ - infrared sensor					
<i>Gas</i>	<i>Note</i>	<i>Range up to</i>	<i>Gas</i>	<i>Note</i>	<i>Range up to</i>
CO ₂		1000 ppm	CO ₂		25 %
CO ₂	operating life 2 years	5 %	CO ₂		70 %
CO ₂		5 %			

Optional equipment :

- ◆ data recorder for measured values
- ◆ software for displaying measured values as tables or charts
- ◆ headphones
- ◆ vibration alarm
- ◆ telescopic sampling probe 1,36 m (or 1,92 m)
- ◆ sampling piping for sampling probe connection
- ◆ leather case with a bearing strap

The catalogue sheet contains only some parameters important for your decision. For planning always require a corresponding user manual and eventually a technical consultation on the possibilities of use.