Microtector III G888

Advanced personal protection

smart
GasDetection
Technologies **GfG**
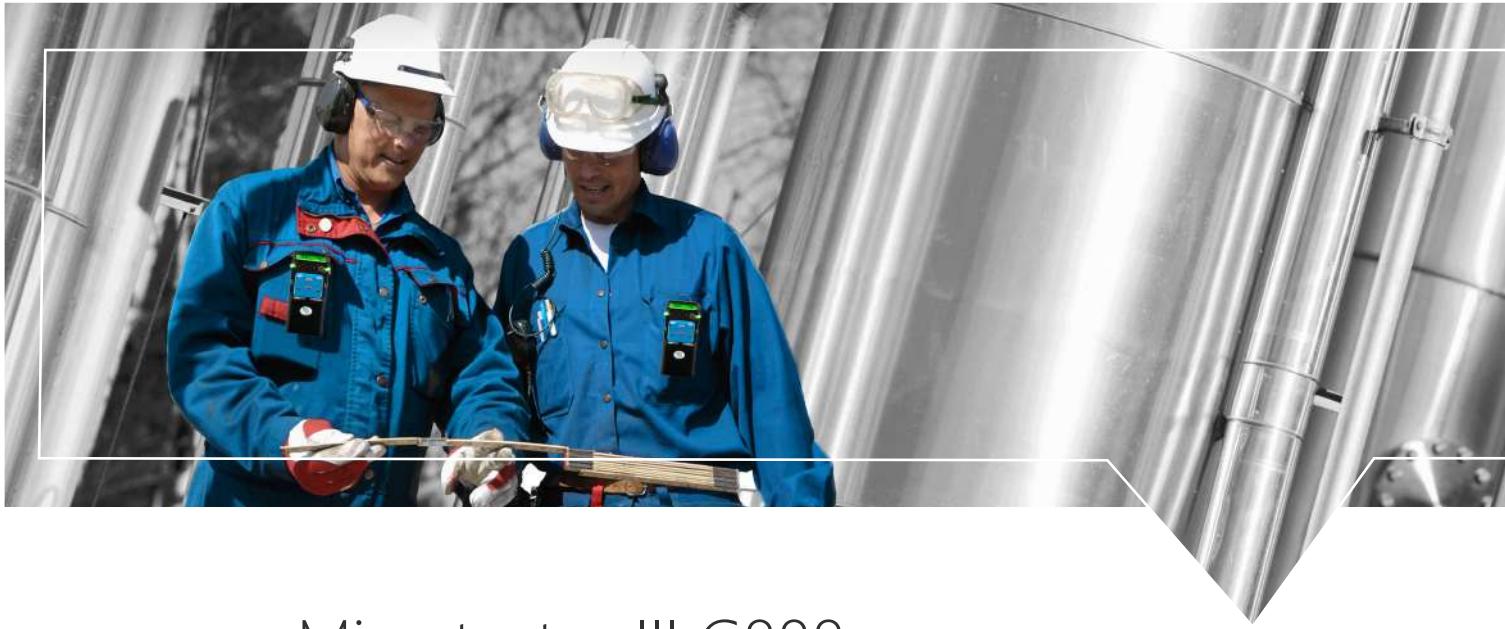
Microtector III G888 –
Your safety is our goal

The development of the Microtector III G888 focused on the requirements of a modern multi-gas detection instrument for use in personal protection. The result is a multi-gas warning device that is safe, robust and practical and has proven itself in daily working conditions.

Advantages

Safety through quality and functionality

Equipped with high-quality, precise and durable sensors that can be individually adapted to your requirements. Multitude of gas-combinations can be identified to ensure maximum safety of employees.

The well thought-out design of the housing and the menu navigation eases the operation of the multi-gas warning device under difficult conditions. This device features a rotating display, easily turning 180 degrees with just one click. For working in poorly lit conditions, the device conveniently features an explosion-protected LED light.

Designed for difficult working conditions

Sometimes there is a need to work in challenging environments; the Microtector III G888 is equipped to withstand such challenges. Ex zone 1 certified, the Microtector III G888 is dust-tight and water-resistant in accordance to the IP 67 protection class. The rubberized polycarbonate housing makes the detector shock-resistant and will keep your device safe in case of a fall. It is also comfortable to wear, weighing only 275g.

Suitable for long operating times

Depending on the sensor equipment and configuration, the Microtector III G888 has an operating time of up to 65 hours.

Remote monitoring keeps employees safe

If the G888 with the radio module is used, teams can be monitored centrally via the portable GfG-Link or using a computer and an USB dongle. Information regarding the measured gas concentrations, alarm levels and the status of the man-down alarm will then be available in real time.

Be prepared for an emergency

In the event of an emergency it is always good to be prepared. The Microtector III G888 is able to simulate an alarm of any gas concentration, in order to train and prepare for a variety of emergency situations.

Maintenance and documentation

The test and docking stations for the Microtector III G888 not only allow location-independent, daily bump tests and regular functional checks, as well as the complete documentation.

G888 - the team player

The Microtector III G888 offers optimum individual protection for everyone working in hazardous and/or enclosed areas. When measuring releases of gas or searching for a gas leak, it is recommended to use the Polytectors III G999 from GfG, which has a built-in pump. The advantage: both devices can be remotely monitored by a computer or GfG-Link.

GfG

TRIPLE WARNING SIGNAL

Optical, acoustic and vibration alarm

FUNCTIONAL DESIGN

Non-slip and shock-resistant housing, water and dust protected according to IP67

RADIO MODULES (OPTIONAL)

Real-time data and alarm transmission at 868 MHz (Europe) or 915 MHz (Americas)

MAN DOWN ALARM

2 warning levels local plus notification of supervisor or alarm center*

(*optional with radio module and GfG-Link)

INTUITIVE OPERATION

One click for important displays, convenient menu navigation with 3 buttons

SMALL, HANDY DESIGN

Smallest and lightest 7-gas detector

HIGH QUALITY SENSORS

Sensitive, precise and durable sensors for toxic/flammable gases/vapors and O_2
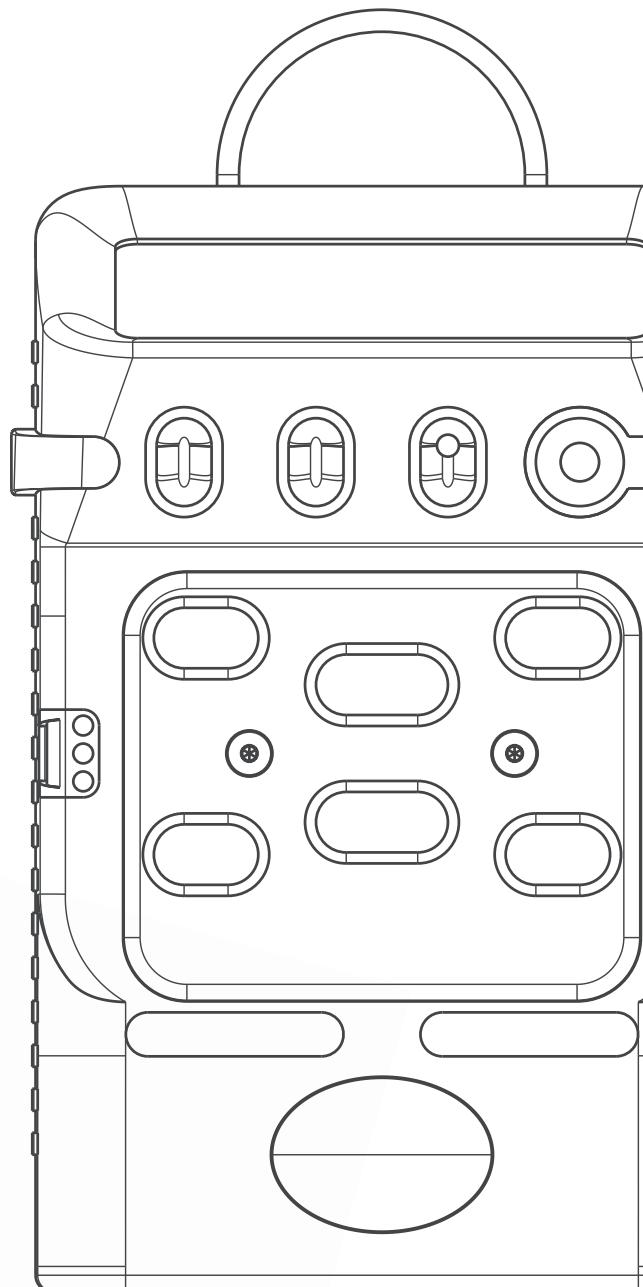
The right accessories for every requirement

Docking- und Test stations

Fast, automatic and cost-effective execution of daily bump tests including documentation in accordance with national regulations.

In addition to the bump tests, the GfG docking stations also enable the required, regular functional checks to be carried out.

Docking station DS400
» 1x single/multi-gas, 1x air and 1x flue connection
» Display and documentation of the adjustment of zero and test gas

Docking station DS404
» Like the DS400
» 4x single/multi-gas, 1x air and 1x exhaust connection

TS400 test station
» Can also be used mobile (no PC - 12/24 V power supply)
» Data logger included
» Charging function (optional)

TX400 test station
» Like the TS400
» Sensitivity adjustment of the sensors
» Display and documentation of the adjustment of test gas

GfG-Link

As a mobile monitoring unit, the GfG-Link allows the supervisor to monitor gas concentrations and alarm conditions of up to 10 employees by radio.

GfG-Link 10
» 868 MHz band (Europe/Africa); 915 MHz band (North and South America)
» Range dependent on interference influences (max. Free field 700 m)
» Pager function

Additional Products

Smart Charger Cap for G888
» Adapter for manual test gas feeding
» Data interface and connection to PC
» Charging function

USB-Dongle
for wireless connection incl. G888/G999 Visual software
» 868 MHz band (Europe/Africa); 915 MHz band (North and South America)
» Range dependent on interference influences (max. Free field 700 m)
» Operating system: Windows

Charger DIC 888/999

» Smart charge control for optimum charge status and long battery life

Transport and storage case

» Suitable for GfG single and multi-gas test cylinders
» Space for TS400 or TX400 and accessories

Related Products

Polytector III G999

» For toxic and flammable gases, O_2, CO_2 and CO
» Additional sensor combinations includes PID and Hybrid (WT/HL)
» Range dependent on interference influences (max. free field 700 m)
» Pager function

« Bump tests made easy »
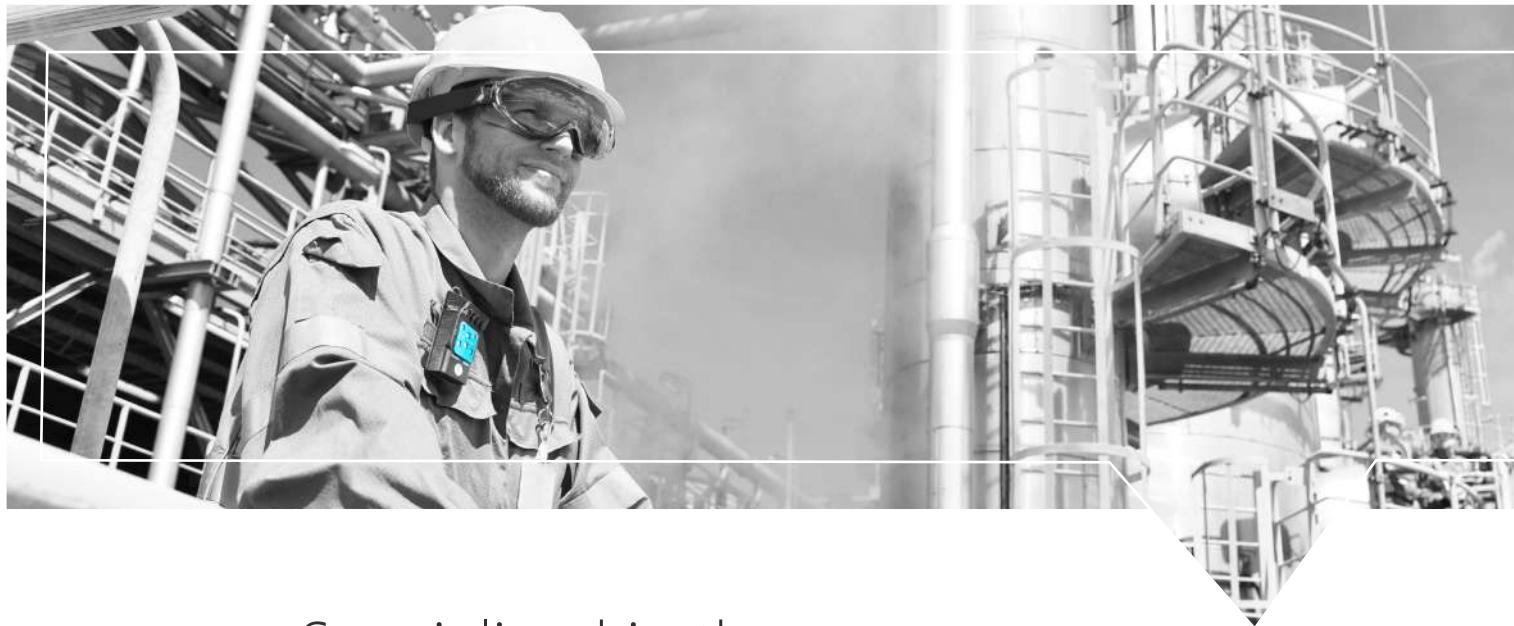
Specialized in the variety of gas combinations

With the Microtector III G888 the concentration of up to seven gases can be monitored simultaneously. There are virtually no limits to the gas combinations, which makes the Microtector III one of the most versatile portable gas detectors. A total of three slots are available for electrochemical sensors (EC) and one each for an infrared (IR) and a heat tinting sensor (WT). The combination of the various sensor technologies compensates for the limitations of individual processes.

The technologies at a glance:

Electrochemical

» Linear display behavior
» High sensitivity
» Easy handling
» Low price

Infrared

» Low cross sensitivity (high selectivity)
» High measuring accuracy
» Only hetero-atomic gases (e.g. CH_4, CO_2)

Catalytic combustible

» High measuring accuracy
» Sum measurement of all flammable gases and vapors
» Low price

TECHNICAL DATA: MICROTECTOR III G888

Measuring principle:	Electrochemical (EC): for toxic gases and oxygen Heat treatment (WT): for flammable gases and vapors (up to 100% LEL) Infrared (IR): for flammable gases and vapors and carbon dioxide
Sample gas supply:	Through diffusion opening
Display:	Illuminated LCD full graphic display, automatic size adjustment for optimum reading, display of battery capacity, gas concentration as current value and peak value
Alerting:	Depending on gas type 3 or 2 instantaneous value and 2 exposure value alarms, battery alarm with visual and audible signal as well as display, color of display depending on alarm status (orange/red) Horn: 103 dB(A) (can be reduced to 90 dB(A))
Zero point and sensitivity adjustment:	Manually or automatically with adjustment program if necessary test gas supply using "SMART CAP" with 0.5...0.6 slpm
Radio:	Optional 868 MHz for EU; range approximately 700 m (free field) Optional 915 MHz for USA; range approximately 300 m (free field)
Power supply:	NiMH rechargeable battery module; 2.6 V 2100 mAh; rechargeable

Operating time*	Without a radio:	With radio:
	ca. 13h (EC+WTPS+IR) ca. 21h (EC+WTPS) ca. 65h (EC) ca. 13h (EC+WTPS+IR) ca. 21h (EC+WTPS) ca. 65h (EC) ca. 23h (EC+IR) ca. 23h (EC+IR)	ca. 10h (EC+WTPS+IR) ca. 14h (EC+WTPS) ca. 26h (EC) ca. 15h (EC+IR)

Climatic conditions

For the operation:	-20...+50°C | 5...95 % r.h. | 70...130 kPa
For storage:	-25...+55°C | 5...95 % r.h. | 70...130 kPa (recommended 0...+30°C)

Case

Material:	Rubberized polycarbonate
Dimensions:	68 x 100 x 39 mm (W x H x D)
Weight:	up to 275 g (depending on sensor equipment)
Protection class:	IP67

Approvals / Tests

Intrinsic safety:	c-CSA-us (Pending) Class I, Division 1, Groups A, B, C, and D T3 Ex ia IIC T3 Class I, Zone 0 AEx ia IIC T3 Ex db eb ia IIC T3/T4 Gb (NiMH=T3) -20 ≤ Ta ≤ +45 / +50 °C 08.1934905X
Standards:	IEC 60079-0:2011 (Ed.6) IEC 60079-7:2015 (Ed.5) IEC 60079-1:2014 (Ed.7) IEC 60079-11:2011 (Ed.6) CSA C22.2 No. 152-M1984 UL 913 ANSI / ISA-12.13.01-2000 EMI / RFI Resistance: EMC Directive 89 / 336 / EEC
Electromagnetic compatibility:	DIN EN 50270:2015 Interference emission: Type class I Interference immunity: Type class II

*The operating time applies to new battery modules at operating temperatures of +20°C
and without consideration of other energy consumers (lamps, alarms, etc.).
PowerSafe mode (PS) of the catalytic combustible sensors can optionally be switched off.

Worldwide availability and quality
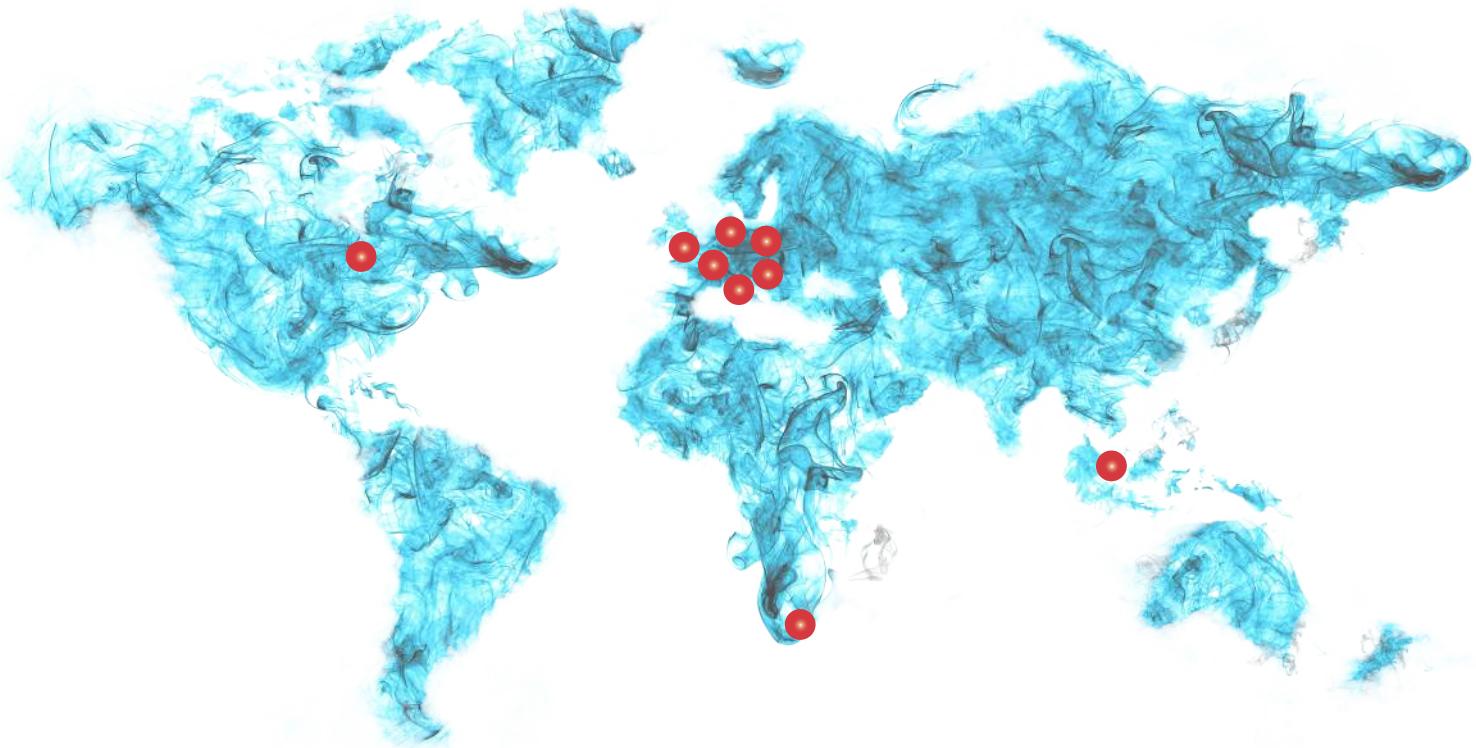
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