

Microtector III G888

4 - 7 Sensor Personal Gas Monitor with remote multiple instrument monitoring, two way communication and Man Down options



Measurable gases









Record-breaking

G888 The is the world's smallest and lightest 4-7 sensor personal gas monitor with optional Radio communication. The G888 can detect toxic, flammable gases & vapours along Oxygen depletion and enrichment. Numerous combinations sensor and comprehensive accessories ensure the G888 can can be used in a wide range of industry applications.

Easy operation

The main functions - peak display, EX LED lamp, alarm reset, display zoom and rotating display can all be controlled with a simple keystroke and the device has a convenient 3 button user menu.

Man-down alarm

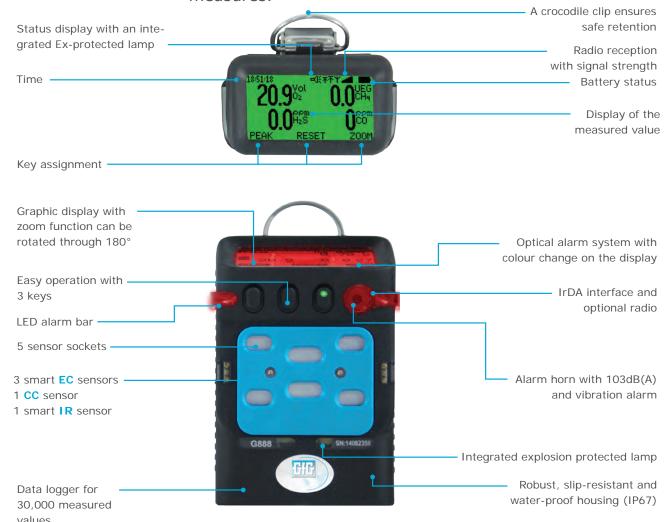
The G888 has been equipped with а mandown alarm. The time interval for when the alarm should be triggered can be individually set password protected so that in critical cases no time is lost while initiating rescue measures.

Wireless live measurement data

The G888 can send realtime data by radio to a central GfG-Link or an operation centre.

PC and tablet

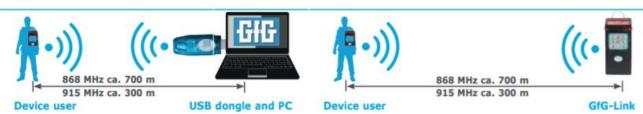
The visualisation software, GfG-Connect, can be used on Windows®-based PCs or tablets. Up to 20 devices can be displayed as a list or with a detailed view.











GfG-Link

The GfG-Link can connect from 1-4 or 5-10 devices. Both the user name of the device and the current measurement data displayed on the GFG Link. The lifesaving man down alarm has a special status and is amplified by an unmistakable acoustic signal sequence and a red flashing alarm display. The GfG-Link display represents all connected devices and their current status. The "open field" approximately range is

Pager function

The GFG-Link can send short messages to the G888 and you can choose between free text on a PC or preconfigured standard messages with the GfG-Link. The short messages can be confirmed from the G888 with short standard replies such as "OK".

Alarm simulation

In order to prepare your personnel for an emergency, the G888 is equipped with a training mode. It is possible to simulate instrument alarms via PC or the



Range monitoring



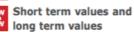




Man down alarm









Sensor Options

Several versions are available:

One version is:

1x combustible catalytic (CC), 1x infra- red (IR), up to 3x electrochemical (**EC**).

The design of the G888 allows different sensor combinations ensuring industry most requirements are met.

Sensors

Using the best quality sensors ensures reliability, better accuracy, quick reduced and response sensitivity. Using cross "smart" sensors" makes servicing easier.

The infrared principle (NDIR)

With only IR one measuring chamber, carbon dioxide and hydrocarbons be can simultaneously yet precisely detected as the sensor uses up to four gas-specific wavelengths. Absorption paths and wavelengths are perfectly adapted to gases and measuring ranges. Damage to the sensor by silicone compounds hydrogen sulphide can be excluded with IR technology. The IR sensor has the advantage of heat tone sensors so that it is not damaged even at the highest qas concentrations.

Large display & zoom **function**

The clear graphic display can be rotated through 180° and can be conveniently read in any position it is worn, e.g. if you have attached it to your work clothes you have both hands free and can keep an eye on all the displayed values. The zoom function of the display facilitates the reading of the device while other PPE is worn e.a under a breathing mask or without the need for reading glasses.





Main alarm: Highest alert level





Pre-alarm: Caution!





All measured values in the normal range



Real-time data transmission





Alarm thresholds

The alarm thresholds for oxygen and combustible gases as well as two current limits for toxic gases and explosion alarms provide comprehensive protection for the user.

- LongTermValue (LTV or (TWA)
- ShortTermValue(STV) or (STEL)

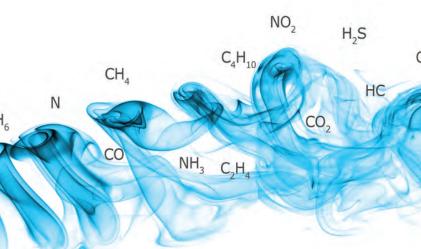
Data logger

The integrated data logger simultaneously records up 12 measured values and saves internally up to 30,000 measured values (500 hours at 1 minute logging intervals). The saved data can be conveniently read via the smart drop-in cap or charger.

Safety meets design

The G888 combines technical innovation with captivating design. An independent committee of experts have commended the outstanding performance in design and functionality, with special consideration given to the size and weight of the device.

will be automatically monitored as mean value and the average value will be saved. All limits can be individually set and pass code protected.













The sensor cover of the Microtector III G888 can be individually designed with colours, if desired. In this way, you can distinguish differently equipped devices at a glance.

Smart device management











- Adapter for the manual test gas injection
- Data interface and connection to the PC

DIC drop in Charger

- Charger for controlled charging
- Data interface and connection to the PC
- Avoiding charging errors by capacity monitoring of the battery

Test station TS400

- The on-site solution for daily instrument testing with gas (Bump Test)
- All results logged to in-built SD Card No PC necessary
- Can produce documentation of each test performed
- Minimises cost of gas and test time
- Mobile simple and rapid operation
- Complies with the provisions of the DGUV information 213-056 (T021) and 213-057 (T023) for visual control

Docking station DS400



- Fully automatic Calibration or funtional (Bump) Test
- Can produce documentation of each test performed incl.Calibration Certs
- Quick & Easy to use
- No PC required for the operation data saved to SD Card
- Single Gas Bottle connection Single or Multi-Mix Gas Bottle
- Charging option
- Complies with the provisions of the DGUV information 213-056 (T021) and 213-057 (T023) for the functional control



Docking station DS404

- Fully automatic Calibration or funtional (Bump) Test
- Can produce documentation of each test performed incl. Calibration Certs
- Quick & Easy to use
- No PC required for the operation data saved to SD Card
- Four Gas Bottle connection Single Gas / Multi Gas / Exotic Mixes
- Charging option
- Complies with the provisions of the DGUV information 213-056 (T021) and 213-057 (T023) for the functional control

Accessories





GfG-PolyLink 4 GfG-PolyLink 10

- Monitoring of 4 or 10 x G888
- Intuitive operation
- ATEX certified
- Range of 1400m



Holster with belt

Optimum protection



USB Dongle for Radio communications

- Open Field 700m
- Other antennas on request



Technical Data

Microtector III G888

Electrochemical (EC) measuring principle:

Up to 3 different sensors:

Toxic gases and oxygen (ppm / Vol.-%)

Catalytic sensor (CC):

Flammable gases and vapours (up to 100% LEL)

Infrared (IR):

Carbon dioxide (Vol.-%) Hydrocarbons (100 % LEL and Vol.-%)

Expected service life of the sensor

Up to 5 years; depending on the sensor

Device version:

G888C

3x electrochemical sensors (EC) 1x catalytic sensor (CC) 1x infrared double sensor (IR1, IR2/IR3)

Measuring gas supply:

Diffusion

Display:

Illuminated LCD graphics display with colour change for the alarm display can be turned by 180°, automatic zoom for best readability

Three or two current value and two exposure level alarms, battery alarm depending on the type of gas

Optical alarm:

Colour of the display depends on the alarm status of the device (green/orange/red), 360° all-round red LED

Acoustical alarm:

103 dB (A) loud and can be Reduced to 90 dB (A)

Temperature:

Operation: -20°C .. +50°C -25°C .. +55°C Storage:

Humidity:

Operation and storage:

Pressure:

Operation and storage: 70 .. 130 kPa

Zero point / Sensitivity adjustment:

User-friendly, automatic adjustment via AutoCal function, manual adjustment in the sensor menu

Energy supply:

NiMH battery

Charging:

Charging and trickle charging via the charger or docking station

Device runtime depending on the equipment:

EC+CC+IR+radio EC+CC+IR10h EC + CC(PS)

Charging times:

About 6h if the battery is flat About 3h after a shift (with EC+CC+IR sensors)

Dimensions:

68 x 100 x 30 mm (WxHxD) Display diagonal 55 mm

Housing material:

Rubberised polycarbonate

Protection class:

Automatic maintenance reminder:

(Recommended 0 .. +30°C) Display when switching on

5 .. 95 % rh Data logger:

About 500h data recording (interval of 1 minute) 30,000 measured values, 12 values simultaneously Intervals can be set (1 s - 60 min) Recording of mean /peak / instantaneous values can be selected

Type examination certificate:

BVS 15 ATEX E 064X IECEx BVS 15.0056X

Labelling and ignition protection

ATEX for G888C II 2G Ex ia db IIC T4 Gb I M2 Ex ia db I Mb **IFCFx** Ex ia db IIC T4 Gb Ex ia db I Mb

Weight:

up to 265g depending on the sensor equipment





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