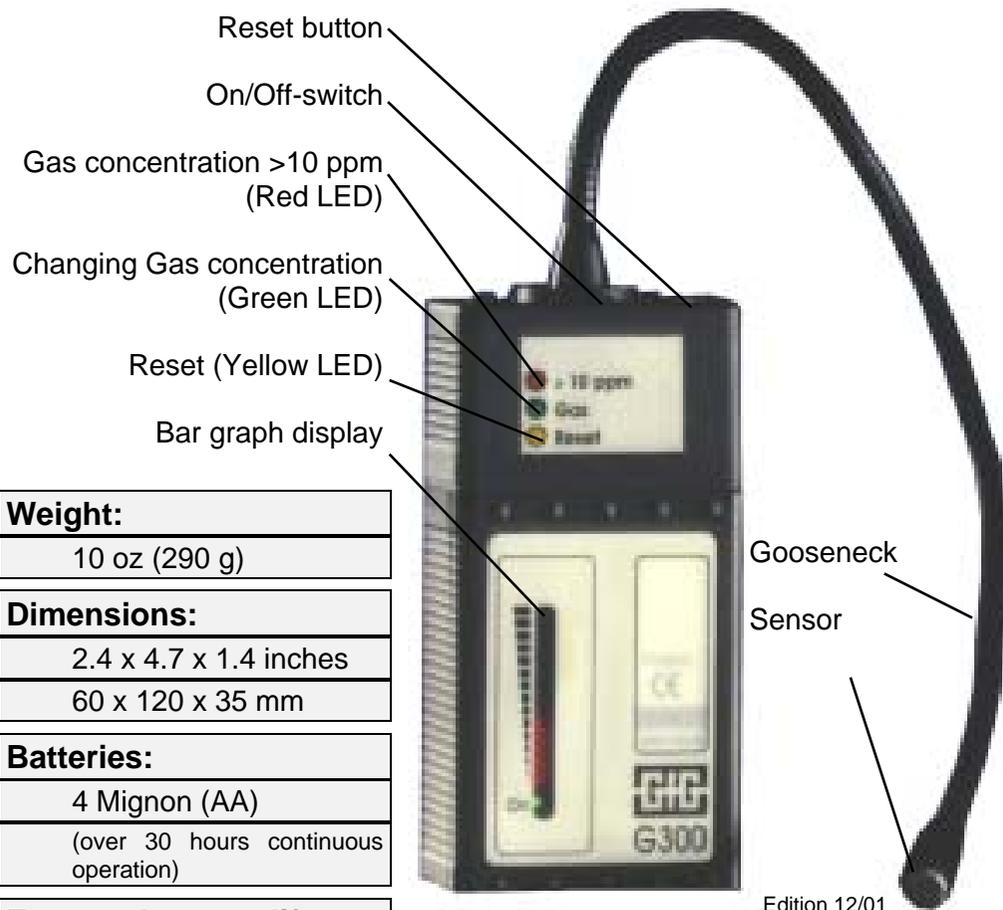


# G 300 III

## Operation manual



Gesellschaft für Gerätebau mbH  
 P.O.Box 44 01 64 D-44390 Dortmund  
 Phone: +49-231-56400 0  
 Fax: +49-231-516313  
 E-mail: info@gfg-mbh.com  
 Internet: www.gfg.biz



**Weight:**  
10 oz (290 g)

**Dimensions:**  
2.4 x 4.7 x 1.4 inches  
60 x 120 x 35 mm

**Batteries:**  
4 Mignon (AA)  
(over 30 hours continuous operation)

**Expected sensor life:**  
2 Years

**Turn ON / OFF** Turn on the G 300 III by the On/Off switch and allow for a warm-up time of about 20 seconds before the instrument is ready for operation.

**Start of operation** During the warm-up time the detector gives an audible signal, which can be switched off by pressing the reset button. This button may be pushed again in case of extended warm-up time.  
The G 300 III is ready for operation, if:

Edition 12/01

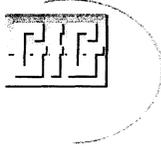
	<ul style="list-style-type: none"> <li>all red LED`s in the bar graph display are out,</li> <li>the yellow LED is off,</li> <li>the green LED (Gas) blinks and a slow rhythmic signal sounds.</li> </ul>
<b>Detection</b>	If methane is present, it is continuously measured and displayed. The gas concentration is indicated in three ways: <ul style="list-style-type: none"> <li>red LED (&gt; 10 ppm)</li> <li>Bar graph display of gas concentration</li> <li>audible and visual indication of gas concentration (leak detection signal)</li> </ul> <p><b>The audible and visual leak detection signal does not effect the bar graph display.</b></p>
Red LED (> 10 ppm)	The red LED indicates a gas concentration above 10 ppm.
Bar graph display of gas concentration	The bar graph (14 red LED`s) provides a visible indication of the gas concentration. When all LED`s light up, the gas concentration has reached or exceeded the full scale of the G 300 III.  If the green LED at the bottom of the bar graph does not light, the instrument has to be zeroed.
Audible indication of gas concentration	Rising or falling gas concentrations are indicated acoustically by faster or slower rhythmic signals. The audible signal allows leak detection without keeping an eye on the display. The visual indication supports the audible signal in noisy environments.
New starting point	To cover the wide detection range of the G 300 III push the reset button during leak detection to give the signal a new starting point: <ul style="list-style-type: none"> <li>when the audible signal gives a permanent sound. This allows to detect leakages even in gas contaminated environment,</li> <li>if the gas concentration falls below the new starting point for leak detection. So you set another starting point from the actual gas concentration.</li> </ul>

Meaning of signals and signal changes during leak detection		
Signal	Meaning	Action
Permanent sound, red LED is on, LED`s in bar graph are on	Exceeding the current leak detection range	Pushing the reset button sets a new starting point.  A permanent sound remaining in spite of repeated pushing the reset button means that full scale value is exceeded.
No sound, yellow LED is on	Falling below the current leak detection range	Pushing the reset button sets a new starting point.
Permanent sound	Battery alarm	The battery pack of the G 300 III has to be replaced.

## EC- Declaration of Conformity GfG Gesellschaft für Gerätebau mbH

**G300 III**

Klönnestrasse 99  
D-44143 Dortmund  
Tel: +49 (231) 56400-0  
Fax: +49 (231) 516313  
E-Mail: [info@gfg-mbh.com](mailto:info@gfg-mbh.com)  
[www.gfg.biz](http://www.gfg.biz)



Edited: 10.11.2011 Amended:

GfG Gesellschaft für Gerätebau mbH develops, produces and sells gas sensors and gas warning devices, which are subject to a **quality management system** as per DIN EN ISO 9001.

Subject to supervision by means of a **quality system** -Certificate No. BVS 03 ATEX ZQS / E 187- issued by the notified body, DEKRA EXAM GmbH, is the production of electrical apparatus of instrumentation Group I and II, categories M1, M2, 1G and 2G for gas sensors, gas detectors, gas warning systems in ignition protection classes explosion- proof encasing, increased safety, encapsulation and intrinsic safety, as well as their measuring function.

The portable Detector **G300III** complies with **council directive 2004/108/EC** for electromagnetic compatibility.

The guidelines have been complied with under consideration of the standards mentioned below:

### ■ Electromagnetic compatibility

- Electrical apparatus for the detection and measurement of combustible gases, toxic gases and oxygen. EN 50270
- Radio shielding: Type class 1
- Interference resistance: Type class 2

The EMC testing laboratory EM TEST GmbH, Kamen has been charged with testing and evaluation of the electromagnetic compatibility.

Always adhere to the safety notes of the operation manual 174-000.04.

Dortmund, 10.11.2011

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H.J. Hübner  
President CEO