



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX BVS 07.0006** Issue No.: **0**

Status: **Current**

Date of Issue: **2007-04-16**

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Applicant: **Gesellschaft für Gerätebau mbH**
Klönnestrasse 99
44143 Dortmund
Germany

Electrical Apparatus: **Pump type G400-MP1**
Optional accessory:

Type of Protection: **Intrinsic safety "i"**

Marking: **Ex ia IIC T4 / T3**

Approved for issue on behalf of the IECEx
Certification Body:

Dr. R. Jockers

Position:

Head of Certification Body

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH

Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturer: **Gesellschaft für Gerätebau mbH**
Klönnestrasse 99
44143 Dortmund
Germany

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

| | |
|---|---|
| IEC 60079-0 : 2004 Edition: 4.0 | Electrical apparatus for explosive gas atmospheres - Part 0: General requirements |
| IEC 60079-11 : 2006 Edition: 5 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/BVS/ExTR07.0007/00](#)

Quality Assessment Report:

[DE/BVS/QAR07.0002/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information:

The pump G400-MP1 is an additional feature of the gas detector series G400. The pump is fixed with two screws at the front of the gas detector. There is no electrical connection between the pump and the gas detector. Mounting or unmounting of the pump has to be done only outside of hazardous areas.

The device is powered by an integrated power supply with NiMH rechargeable batteries. Alternatively an integrated power supply with two non-rechargeable alkaline battery cells (AA) is available. Both types of power supply units have to be changed only outside the hazardous area. Also the NiMH power supply has to be charged only outside the hazardous area. The batteries have to be purchased from the gas detector manufacturer GfG Gesellschaft für Gerätebau only. The battery type is specified in the operation manual. In order to differentiate the power supply modules when they are built in the pump, they are marked with different colours.

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT(continued):

Ratings:

- 1 Type of protection and ambient temperature range of the complete pump type G400-MP1 with different combinations of parts:

| | Type of protection | Ambient temperature range |
|---|------------------------------|--|
| Pump with NiMH power supply module (colour: black) | Ex ia IIC T3 | -20 °C = T _a = +55 °C |
| Pump with Alkaline battery power supply module (colour: grey) | Ex ia IIC T4 Ex ia IIC T3 | -20 °C = T _a = +45 °C -20 °C = T _a = +55 °C |

The type of protection and the ambient temperature range of the used gas detector device have to be considered too.

- 2 NiMH power supply module:

Nominal Voltage 2,4 V
 Nominal capacity 2300 or 2500 mAh
 Maximum charging voltage U_m = 6 V (DC)

- 3 Alkaline battery power supply module:

Nominal Voltage 3 V

The allowed battery type is specified by the GfG Gesellschaft für Gerätebau mbH in the operation manual.