

[1] **EC-TYPE EXAMINATION CERTIFICATE**

according to Directive 94/9/EC, Annex III

(Translation)



[2] Equipment and Protective Systems intended for use
in Potentially Explosive Atmospheres, Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **IBExU15ATEX1080 X**

[4] Equipment: **Overfill Prevention Sensor Testing Device**
type ME 6 ...

[5] Manufacturer: **FAFNIR GmbH**

[6] Address: **Bahrenfelder Straße 19**
22765 Hamburg
Germany

[7] The equipment mentioned under [4] and any acceptable variation there to are specified in the schedule to this EC-Type Examination Certificate.

[8] IBExU Institut für Sicherheitstechnik GmbH, NOTIFIED BODY number 0637 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that the equipment mentioned under [4] has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in test report IB-15-3-045 of 30 June 2015.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013 and EN 60079-11:2012.

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified under [17] in the schedule to this EC-Type Examination Certificate.

[11] This EC-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

[12] The marking of the equipment mentioned under [4] shall include the following:

Overfill Prevention Sensor Testing Device:

II (1)G [Ex ia Ga] IIC

connector AS 903:

II 2G Ex ia IIC T4 Gb

-20 °C ≤ T_a ≤ +50 °C

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Authorised for certifications
- Explosion protection -

By order

(Dipl.-Ing. [FH] Henker)



- Seal-
(ID no. 0637)

Freiberg, 30 June 2015

Certificates without signature and seal are not valid.
Certificates may only be duplicated completely and unchanged.
In case of dispute, the German text shall prevail.

Schedule

[13] **Schedule**

[14] **to EC-TYPE EXAMINATION CERTIFICATE IBExU15ATEX1080 X**

[15] **Description of the equipment**

The Overfill Prevention Sensor Testing Device type ME 6 serves for functional controlling of overfill Prevention Sensors by using the PTC resistor principle. The equipment is intended for use in safe areas. It can supply in areas requiring Category 1G equipment.

The connection of the Overfill Prevention Sensor with the connector can be carried out in Zone 1. Only type AS 903 contains an electronic with a dissipating power <1.3 W.

Variations:

ME 6

Overfill Prevention Sensor Testing Device with connector type 903 without product recognition

ME 6 F

Overfill Prevention Sensor Testing Device for liquid gas with connector type CEE without product recognition

ME 6 P

Overfill Prevention Sensor Testing Device with connector type AS 903 with product recognition

Ambient temperature range: -20 °C to +50 °C

Degree of protection of the enclosure: ≥ IP20

Electrical data

Output voltage: $U_o \leq 20.8 \text{ V DC}$

Output current: $I_o \leq 133 \text{ mA}$

Output power: $P_o \leq 690 \text{ mW}$

Internal inductance: $L_i \leq 10 \mu\text{H}$

Internal capacitance: $C_i \leq 2 \text{ nF}$

Permitted external inductance: $L_o \leq 500 \mu\text{H}$

Permitted external capacitance: $C_o \leq 110 \text{ nF}$

[16] **Test report**

The test results are recorded in the test report IB-15-3-045. The test documents are part of the test report and listed there.

Summary of the test results:

The Overfill Prevention Sensor Testing Device type ME 6 ... fulfils the requirements of explosion protection on an associated apparatus for the Equipment Group II and Category 1G in type of protection Intrinsic safety for gases of the Explosion Group IIC.

[17] **Special conditions**

- It is not permitted to connect simultaneously the overfill prevention sensor at sensor connector and the auxiliary energy at USB-connector.
- If the connector of overfill prevention sensor is located in an explosive atmosphere of gasses with a temperature class T5 or T6, the type ME 6 P or connector type AS 903 is not permitted for use.

[18] **Essential health and safety requirements**

Confirmed by compliance of standards (see [9]).

By order



(Dipl.-Ing. [FH] Henker)

Freiberg, 30 June 2015