

[1] **EU-TYPE EXAMINATION CERTIFICATE - Translation**



[2] Equipment or protective systems  
intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU15ATEX1080 X** | Issue 1

[4] Product: **Overfill Prevention Sensor Testing Device**  
Type: ME 6 ...

[5] Manufacturer: FAFNIR GmbH

[6] Address: Schnackenburgallee 149 c  
22525 Hamburg  
GERMANY

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, notified body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report IB-19-3-0159.

[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN IEC 60079-0:2018 and EN 60079-11:2012 except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product 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<sub>a</sub> ≤ +50 °C

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By order

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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.

Freiberg, 2020-01-02

[13] **Schedule**

[14] **Certificate number IBExU15ATEX1080 X | Issue 1**

[15] **Description of product**

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 <1.25 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:	$U_o$	≤ 21.4 V DC
Output current:	$I_o$	≤ 137 mA
Output power:	$P_o$	≤ 732 mW
Internal inductance:	$L_i$	≤ 10 μH
Internal capacitance:	$C_i$	≤ 2 nF
Permitted external inductance:	$L_o$	≤ 490 μH
Permitted external capacitance:	$C_o$	≤ 98 nF

*Variations compared to EC-Type Examination certificate:*

*Variation 1*

The intrinsically safe parameter have been changed.

*Variation 2*

The Overfill Prevention Sensor Testing Device complies with the requirements of EN IEC 60079-0:2018.

*Variation 3*

Manufacturer's address has been changed.

[16] **Test report**

The test results are recorded in the confidential test report IB-19-3-0159 of 2019-12-20.

The test documents are part of the test report and they are listed there.

*Summary of the test results*

The Overfill Prevention Sensor Testing Device type ME 6 ... further 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] Specific conditions of use**

- 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 gases and vapors 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**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:

None

**[19] Drawings and Documents**

The documents are listed in the test report.

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