



EU - Type Examination Certificate

- (1) **EU - Type Examination Certificate**
- (2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 16 ATEX 0065X

- (4) Product: **Induction Sensor type EPx-.... with terminal plate Ex**
- (5) Manufacturer: **HEINRICHS Messtechnik GmbH**
- (6) Address: **Robert-Perthel-Straße 9, D50739 Köln, Germany**
- (7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, 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 confidential Report number:
- 16/0065 dated 02.06.2016**
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012; EN 60079-7:2007; EN 60079-11:2012; EN 60079-31:2009
- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.
- (11) This 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:

 **II 2G Ex e ia IIC T6 ... T3 Gb**

 **II 2D Ex tb IIIC T 80°C ... T 155°C Db**

This certificate is valid till: **31.08.2019**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 09.06.2016

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Annexes: 2 (2 sheets)

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(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 16 ATEX 0065X**

(15) Description of Product:

The Induction Sensor of the type designation EPx-.... approved by certificate FTZÚ 16 ATEX 0064U consists of a measuring pipe section of nominal inner diameter DN 15 ... DN 300, measuring electrodes, electromagnetic excitation coils and the so-called "chimney" - a steel pipe with a stainless-steel flange attached to which is a terminal box providing electrical connections to the electronic unit of the induction flow meter. The terminal box includes 7 connecting terminals separated from one another by partitions (3 terminals of the type designation 264-120 approved by certificate PTB 98 ATEX 3129U and marked SP+, SP- and PE, and 4 type-264 terminals intended for intrinsically safe circuits and marked 2, 2, 1 and 3).

(16) Report Number.: 16/0065 dated 02.06.2016

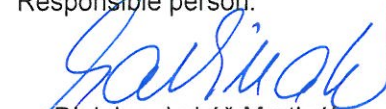
(17) Specific Conditions of Use:

1. The intrinsic safety circuits sensing electrode circuit shall be connected to other intrinsic safety systems whose output parameters shall be within the sensor input parameters (green and white conductors); $U_i \leq 30 \text{ V}$, $I_i \leq 100 \text{ mA}$, C_i and L_i negligible.
2. The maximum permitted fluid temperature depends on the pipe lining material; the temperature class and the maximum permitted surface temperature (see Annex No. 1).
3. The induction sensor shall be fully flooded at all times.
4. Excitation of coils max. 200 mA.
5. $-35^\circ\text{C} \leq T_{\text{amb}} \leq +60^\circ\text{C}$.
6. Cable glands have to be certified according to the standards mentioned in (9) of this certificate.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

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(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
EPX-EX-TB_BA_01-EN		24	19.06.2015	Operating manual
Es 301469			21.08.2014	
Es 30146			09.07.2014	
Es 301471			21.08.2014	
LOGO-164	a		30.03.2016	
LOGO-165	a		30.03.2016	
LOGO-166	b		01.04.2016	
LOGO-167	b		01.04.2016	
Es 402083			21.08.2014	

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ANNEX

to EU - Type Examination Certificate No. FTZÚ 16 ATEX 0065X

Annex No. 1

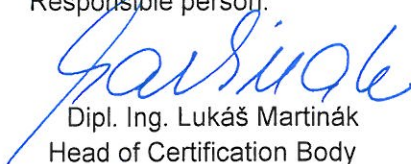
For DN 15 and DN 25

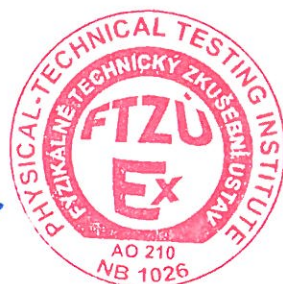
Type of lining	Maximum temperature of measured medium	Temperature class for 2G	Surface temperature for 2D
MG	-35°C + +48°C	T6	+80°C
NG	+5°C + +48°C	T6	+80°C
E-CTFE a PTFE	-35°C + +48°C	T6	+80°C
E-CTFE a PTFE	-35°C + +63°C	T5	+95°C
E-CTFE a PTFE	-35°C + +98°C	T4	+130°C
E-CTFE a PTFE	-35°C + +123°C	T3	+155°C

For DN 32-300

Type of lining	Maximum temperature of measured medium	Temperature class for 2G	Surface temperature for 2D
MG	-35°C + +64°C	T6	+80°C
NG	+5°C + +64°C	T6	+80°C
E-CTFE a PTFE	-35°C + +64°C	T6	+80°C
E-CTFE a PTFE	-35°C + +79°C	T5	+95°C
E-CTFE a PTFE	-35°C + +114°C	T4	+130°C
E-CTFE a PTFE	-35°C + +139°C	T3	+155°C

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ANNEX

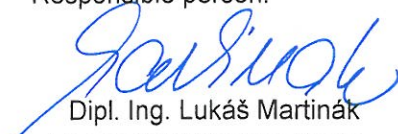
to EU - Type Examination Certificate No. FTZÚ 16 ATEX 0065X

Annex No. 2

The temperature of measured medium according to lining of sensor:

Type of lining:	Operating temperature of measured medium:
Soft rubber (MG)	-35°C ÷ +80°C
Hard rubber for drinking water (NG)	+5°C ÷ +80°C
E-CTFE	-35°C ÷ +130°C
PTFE (Teflon)	-35°C ÷ +230°C

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