



[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 **IBExU17ATEX1149** | Issue 1

[4] Product: **Flow sensor**
Type: FP10...-NAEX-...

[5] Manufacturer: **Hans Turck GmbH & Co. KG**

[6] Address: **Witzlebenstraße 7**
45472 Mülheim an der Ruhr
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-20-3-0070.

[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:

Ex II 1G Ex ia IIC T6...T4 Ga
Ex II 1D Ex ia IIIC T101°C...T136°C Da
-20 °C ≤ Ta ≤ +80 °C T4/T136 °C
-20 °C ≤ Ta ≤ +60 °C T5/T116 °C
-20 °C ≤ Ta ≤ +45 °C T6/T101 °C

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

By order

Dip.-Ing. [FH] A. Henker



(notified body number 0637)

Tel: + 49 (0) 37 31 / 38 05 0
Fax: + 49 (0) 37 31 / 38 05 10

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, 2020-11-26

[13] **Schedule**

[14] **Certificate number IBExU17ATEX1149 | Issue 1**

[15] **Description of product**

The Flow sensor type FP10...-NAEX... is typically installed in pipes and serves for monitoring the flow and temperature measurement of liquid or gaseous media. As intrinsically safe equipment, it is intended for use in explosion group IIC or IIIC as a category 1G or 1D device.

Technical Data

Temperature range: -20 °C to +80 °C T4/ T136 °C
 -20 °C to +60 °C T5/ T116 °C
 -20 °C to +45 °C T6/ T101 °C

Electrical specifications

Supply circuit in protection class Intrinsic safety Ex ia IIC

U _i	7.2 V
I _i	60 mA
P _i	689 mW
L _i , C _i	negligible

Data circuit in protection class Intrinsic safety Ex ia IIC

U _i	7.0 V
I _i	70 mA
L _i , C _i	negligible

additional cable capacitances 200 pF/m and cable inductances 1 µH/m

Type Key

FP10...-NAEX-...

F	Flow
P	Probe
1	Monitoring
0	Process connection via adapter
.	Display
.	Pressure
.	process connection
NAEX	Electric behaviour
...	Electric Connection

Variations compared to issue 0 of this certificate:

Constructional changes

[16] **Test report**

The test results are recorded in the confidential test report IB-20-3-0070 of 2020-11-24. The test documents are part of the test report and they are listed there.

Summary of the test results

The Flow sensor type FP10...-NAEX... fulfils the requirements of the type of protection intrinsic safety for electrical devices of equipment group II, category 1G or 1D, explosion group IIC or IIIC.

[17] **Specific conditions of use**

None

[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.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

By order



Dip.-Ing. [FH] A. Henker

Freiberg, 2020-11-26