



EU-TYPE EXAMINATION CERTIFICATE

(1)

(2)

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/UE

(3)

EU-Type Examination Certificate Number: **JSHP 19 ATEX 0055X**

(4)

Product: **TEMPERATURE SENSORS of XDI-... series with display**

(5)

Manufacturer: **TERMOAPARATURA WROCŁAW**

(6)

Address: **55-010 ŚWIĘTA KATARZYNA, ZĘBICE, RZEMIEŚLNICZA 4**

(7)

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

(8)

J.S. Hamilton Poland S.A., Notified Body no. 2057, 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 confidential Report No. JSHP/RW/54/19/RM.

(9)

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018
(PN-EN IEC 60079-0:2018-09)
EN 60079-26:2015
(PN-EN 60079-26:2015-04)

EN 60079-1:2014
(PN-EN 60079-1:2014-12)

EN 60079-11:2012
(PN-EN 60079-11:2012)
EN 60079-31:2014
(PN-EN 60079-31:2014-10)

(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.

This certificate is valid in its entirety, schedule(s) included.

(12)

The marking of the product shall include the following:

II 1/2G Ex db IIC TX Ga/Gb

or

II 2G Ex ia IIC TX Gb

or

II 2G Ex db IIC TX Gb

or

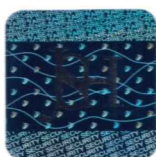
II 1/2D Ex ia IIIC TX Da/Db

or

II 1/2G Ex ia IIC TX Ga/Gb

or

II 1/2D Ex ta/tb IIIC TX Da/Db



Romuald Matlachowski

Z-ca Kierownika Jednostki
Certyfikującej



(13) **SCHEDULE**

(14) **CERTIFICATE No. JSHP 19 ATEX 0055X**

(15)

Description of product:

The XDI series temperature sensor consists of a head with a transducer and a measuring insert with a PT resistor or thermocouple. Depending on the needs and the technological process, the measuring insert may have various thermowells and an adapter. The head body together with the measuring insert sleeve forms a flameproof joint. The sensor head has DEKRA type examination certificate 15ATEX0058X. Labeling of the temperature sensor series XDI- ... contains information including on the type of measuring insert, probe length and diameter, and the type of process connection.

Technical characteristics:

Diameter of the cable or wire	Ø3,2 + 8 mm
Maximum range of measured temperatures	from -200°C to +550°C for resistance sensor from -40°C to +1200°C for thermocouple
Ambient temperature	-40 °C ≤ Tamb ≤ +70 °C (T6 class) -40 °C ≤ Tamb ≤ +80 °C (T4 class and T5 for 7501 B) -40 °C ≤ Tamb ≤ +85 °C (T4 class and T5 for 7501 A)

other diameters on customer's demand

The parameters related to intrinsic safety and explosion protection are given in the certificate DEKRA 15ATEX0058X Issue 03.

Technical parameters and type identification are included in the instruction manual M-1218.

(16)

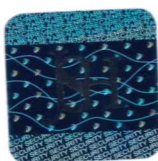
Report number:

– JSHP/RW/54/19/RM

(17)

Specific conditions of use:

- The measuring part of the sensor has a surface temperature equal to the process temperature, the temperature class will be strictly dependent on it.
- The surface temperature of the sensor head depends on the sensor type, process temperature, assembly and ambient temperature. After installing the sensor, the surface temperature should be determined individually and must not exceed the flash point of the explosive gas atmosphere and / or the flash point of 2/3 T_{cl} of the dust cloud. The permissible operating temperature of the connection head cannot be exceeded.
- After installation, the sensor must be grounded.



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SCHEDULE

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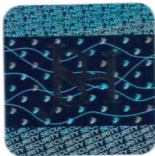
(18) Essential Health and Safety Requirements:

These requirements (EHSRs) are covered by the standards listed at item 9.

(19) Drawings and documents:

- M-1218 updated 2019-11-15. Application Manual Edition 2019. Application Manual Safety Instruction . ATEX CERTIFIED TEMPERATURE SENSORS XDI WITH TRANSMITTER AND DISPLAY PR7501, Edition 2019.
- Flammeproof and intrinsically safe temperature sensors Edition 2019. Catalogue Temperature sensors for Hazardous Areas updated 2019-11-15.

Detailed list of documents required for certified type identification is included in Report mentioned in Clause (16).



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