



Type Examination Certificate

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

(3) Type Examination Certificate number:


FTZÚ 16 ATEX 0145X

- (4) Product: **Temperature sensor TR141Ex series**
(5) Manufacturer: **SENSIT s.r.o.**
(6) Address: **Školní 2610, 756 01 Rožnov pod Radhoštěm, Czech Republic**
(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 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014.
The examination and test results are recorded in confidential Report number:
16/0145 dated 27.07.2017
(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-31:2014
(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 type examination certificate relates only to the design of the specified product and not to specific items of equipment subsequently manufactured.
(12) The marking of the product shall include the following:

 **II 3G Ex ec IIC T6...T2 Gc**
II 3D Ex tc IIIC T60°C...T230°C Dc

This certificate is valid till: **31.07.2022**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 28.07.2017

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13) **Schedule**

(14) **Type Examination Certificate No. FTZÚ 16 ATEX 0145X**

(15) Description of Product:

The temperature sensor TR141Ex series are designed to measure surface temperature of solid matter in a hazardous area Zone 2 and Zone 22.

The product is constructed as a stainless steel or dural case containing the resistive temperature sensor element and a permanently connected cable.

Dimension of case:

Length: 40 to 60 mm with tolerance ± 1 mm

Width: 8,0 to 12 mm with tolerance $\pm 0,1$ mm

Height: 8,0 to 12 mm with tolerance $\pm 0,1$ mm

Diameter of case in the point of sealing cable – 4,5 to 6 mm

Technical parameters:

Measuring current: maximum 3 mA

Degree of protection: IP 65 – for cable with Teflon isolation
IP 67 – for other supply cables.

(16) Report Number.: 16/0145

(17) Specific Conditions of Use:

1. Ambient temperature range:

-20°C ≤ Tamb ≤ +60°C; Temperature class T6 (version with PVC cable);

-20°C ≤ Tamb ≤ +85°C; Temperature class T5 (version with PVC 105°C cable);

-30°C ≤ Tamb ≤ +180°C; Temperature class T3 (version with SILICONE cable);

-40°C ≤ Tamb ≤ +230°C; Temperature class T2 (version with TEFLON cable).

2. The cable shall be protected from pull-off from the device when installed.

3. Installation of sensor shall be performed only in the places with low risk of mechanical danger.

4. Free end of cable shall be connected only outside Zone 2 or Zone 22.

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(13) **Schedule**

(14) **Type Examination Certificate No. FTZÚ 16 ATEX 0145X**

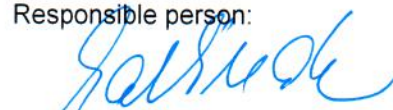
(18) Essential Health and Safety Requirements:

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

(19) Drawings and Documents:

Number	Sheets	Issue	Date	Description
TR141Ex.T01	6	01	01.08.2016	Technical parameters
3153.2	4		04/2017	User manual
3245.1	4		04/2017	User manual
3246.1	4		04/2017	User manual
TR141Ex.0E	2	1	07.10.2016	Drawing
TR141Ex.0E	2	2	07.10.2016	Drawing

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