



Type Examination Certificate

(1)
(2)

Equipment Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

(3) Type Examination Certificate Number:

FTZÚ 07 ATEX 0143X

(7) Equipment: **TR011 series Temperature Sensors**

(8) Manufacturer: **SENSIT s.r.o.,**

(9) Address: **Školní 2610, 756 61 Rožnov pod Radhoštěm, Czech Republic**

(10) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(11) The Physical Technical Testing Institute, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of Category 3 equipment, which is intended for use in potentially explosive atmospheres given in Annex II to the Council Directive 94/9/EC.

The examination and test results are recorded in confidential Report N°

07/0143 dated 17.01.2008

(12) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 60079-0 : 2006; EN 60079-15 : 2005

(13) If the sign „X“ is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(14) This TYPE EXAMINATION CERTIFICATE relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(15) The marking of the equipment or protective system shall include following:

 **II 3G Ex nA II T6, T5, T3**

This Type Examination Certificate is valid till: **20. 01. 2013**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 20.01.2008

Number of pages: 3

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **Type Examination Certificate N° FTZÚ 07 ATEX 0143X**

(15) Description of Equipment:

The TR011 series temperature sensors are designed to measure temperature of liquids or gases even in a hazardous area Zone 2.

The apparatus is constructed as a stainless steel cylindrical case containing the resistive temperature sensor element and a permanently connected cable.

Technical data

Degree of protection: IP 67

Ambient temperature: $-20^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$; temperature class T6 (version with PVC cable)

$-20^{\circ}\text{C} \leq T_a \leq +95^{\circ}\text{C}$; temperature class T5 (version with PUR cable)

$-30^{\circ}\text{C} \leq T_a \leq +180^{\circ}\text{C}$; temperature class T6 (version with SILICONE cable)

Measuring current: max. 3 mA

(16) Report No.: 07/0143

(17) Special conditions for safe use:

The apparatus is capable of withstanding only 25% of pulling force test as defined in clause A.2.3.2 of EN 60079-0. Therefore the cable must be protected from pull-off from the device when installed.

(18) Essential Health and Safety Requirements:

Essential health and safety requirements of Directive 94/9/EC are covered by standards mentioned in (9), according which the product was verified and in the manufacturer's instruction for use.

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Schedule

(14)

Type Examination Certificate N° FTZÚ 07 ATEX 0143X

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LIST OF DOCUMENTATION

<i>Documentation:</i>	<i>Date of verification:</i>
1. Instructions for use TR011-Ni 1000/5000 (2 pages)	17.01.2008
2. Data sheet 06.10 (6 pages)	17.01.2008
3. Technical parameters, description TR011-T01, version A (2 pages)	17.01.2008
4. Drawings No.: TR011 0E+parts list	17.01.2008
TR011 1E+parts list	17.01.2008
TR011 1E1	17.01.2008
S110 1E2	17.01.2008
S110 1E3	17.01.2008
TR 011 1E1	17.01.2008
TG1 0E3	17.01.2008
TG1 0E2	17.01.2008
Labels	17.01.2008

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