



Technická inšpekcia, a.s.

Trnavská cesta 56, 821 01 Bratislava
Slovenská republika

[1] EU-TYPE EXAMINATION CERTIFICATE



- [2] Equipment or Protective System Intended for use in potentially explosive atmospheres
Directive 2014/34/EU
- [3] EU-Type Examination Certificate Number:
TI20ATEX 1308
- [4] Product: **Signal Transducer**
Type: **PS-150**
- [5] Manufacturer: **RPE "Petrolin-A" LLC**
- [6] Address: **423887, Republic of Tatarstan,
Tukaevsky rayon, selo Malaya Shilna, Tsentralnaya Street, 1A**
- [7] This product and any acceptable variation there to is specified in the schedule to this certificate and the documents therein referred to.
- [8] Technická inšpekcia, a.s., Notified Body Number 1354 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 product 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. 1308/5/2020.
- [9] Compliance with the Essential Health and safety Requirements has been assured by compliance with: **EN 60079-0:2012+A11:2013, 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 indicate 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 this Directive apply to the manufacturing process and supply of this product.
- [12] The marking of the product shall include the following:



II 2G Ex ib [ib] IIA T3 Gb -45°C ≤ Tamb ≤ +65°C

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Bratislava, December 14th, 2020

Ing. Dušan Perniš
General Director

479014

This certificate may only be reproduced in its entirety and change, schedule included.

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NB 1354



[13] **Schedule**

[14] **EU-Type Examination Certificate Number: TI20ATEX 1308**

[15] Description of product:

Name: Signal Transducer

Type: PS-150

The equipment consists of Main Enclosure, Lid and End frame. The Enclosure and lid manufactured from aluminium alloy ENAC-43000 and End frame manufactured from Steel 1.1121.

The sensor is designed to convert analogue signals of current 0-20 mA (current loop) or voltage of 0-10 V into a digital signal and transfer them by the RS-485 interface. The sensor also has discrete inputs for determining the state (on / off), counting the number (counter) of pulses, measuring the frequency and the period of the signal following. The signal converter has a non-volatile memory where necessary parameters for operation are stored. Switching occurs automatically and the range of change of the signal is programmed through the menu.

Basic technical data:

Marking	II 2G Ex ib [ib] IIA T3 Gb	
Temperature range in the environment of operation, °C	-45°C ≤ Tamb ≤ +65°C	
Ingress Protection	IP65	
Maximum input voltage U_i , V	28	
Maximum input current I_i , A	1,3	
	Discrete outputs XT1-XT2 XT4-XT5	Analog outputs XT13-XT14 XT16-XT17
Maximum output voltage U_o , V	8,29	15,8
Maximum output current I_o , mA	15	250
Maximum external capacitance C_o , uF	73	2,8
Maximum external inductance L_o , mH	1000	4

[16] Report Number:

Inspection report No: 1308/5/2020

Final Test Report No: 1308/5/2020

[17] Specific Conditions of Use:

None.

[18] Essential Health and Safety Requirements:

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information: None.



[19] Drawings and Documents:

Number	Sheet	Issue	Date	Description
PLA140.105.210.420E3	4	-	-	Schematic diagram
PLA140.105.210.420E4	2	-	-	PCB drawings
PLA140.105.210.420PE3	12	-	-	Bill of materials
PLA140.105.210.420SB	2	-	-	PCB drawings
PLA140.105.210.421	3	-	-	PCB drawings
PLA140.105.210.500E3	1	-	-	Schematic diagram
PLA140.105.210.500E4	2	-	-	PCB drawings
PLA140.105.210.500PE3	3	-	-	Bill of materials
PLA140.105.210.500SB	2	-	-	PCB drawings
PLA140.105.210.501	3	-	-	PCB drawings
PLA140.105.217.000	3	-	-	Bill of materials
PLA140.105.217.000E4	1	-	-	Connection diagram
PLA140.105.217.000EX	1	-	-	Assembly drawing
PLA140.105.217.000RE	31	-	2017	Operation manual
026ILPMK	12	-	27.07.2020	Test Report

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