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 1315

[4] Product: **Display Module**
Type: Mi-140, Mi-140S

[5] Manufacturer: **RPE "Petroline-A" LLC**

[6] Address: 423887, Republic of Tatarstan,
Tukaevsky rayion, 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. 1315/5/2020.

[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 IIA T5 Gb **-45°C≤Tamb≤+65°C**

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NB 1354
- 5 -

Bratislava, December 04th, 2020

Ing. Dušan Perniš
General Director

[13] **Schedule**

[14] **EU-Type Examination Certificate Number: TI20ATEX 1315**

[15] Description of product:
Name: Display Module
Type: Mi-140, Mi-140S

The enclosure of the device is made of aluminium alloy AMC 3.0. The enclosure contains two input connectors for communication. Display modules MI-140 are designed to display the measured technological parameters of SKPB DEL-150, DEL-140 during drilling operations, and well workover in the oil and gas industry. Combination of connections between Power and interface board, Communication board and board for graphical indication can be displayed more than 14 different values.

Basic technical data:

Marking	II 2G Ex ib IIA T5 Gb
Temperature range in the environment of operation, °C	-45°C≤Tamb≤+65°C
Ingress Protection	IP65
Maximum input voltage U_i, V	15,8
Maximum input current I_i, A	1,5
Maximum internal capacitance C_i, uF	0,01
Maximum internal inductance L_i, mH	0

Explanation on Model Type:

	Parameters quantity	Dimensions, mm	Weight, kg
Digital Display Modules			
MI-140(P1)	2	250x190x60	1,52
MI-140(P2)	2	250x190x60	1,52
MI-140(P3)	3	250x190x60	1,52
MI-140(PU)	4	250x190x60	1,52
Display Module with electronic parameters writing			
MI-140(P4)	4...8	550×200×60	3,44
MI-140(P8)	8...14	550×320×60	5,1
MI-140(P9)	9...16	430×440×60	6
MI-140(P12)	9...18	550×440×60	7,4
Digital counter-pointer display			
MI-140S-4E	4	400x300x60*	4,46
MI-140S (6P)E	6	400x300x60*	4,46

*at the backside of indicator enclosure there is a loop of 33 mm height, 78 diameter

[16] Report Number:
Inspection report No: 1315/5/2020
Final Test Report No: 1315/5/2020

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[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
PLA150.504.000.000 RE	37	2.02	2018	MI-140, MI-140S Operation Manual
PLA150.504.107.100E3, PLA150.504.305.100E3	1 1	- -	- -	Schematic diagram
PLA150.504.107.100SB, PLA105.504.305.100SB, PLA150.504.048.000 AD	2 1 1	- - -	- - -	Assembly drawing
PLA150.504.048.000E4	1	-	-	Connection diagram
PLA150.504.107.100, PLA150.504.305.100, PLA150.504.048.000	1 1 1	- - -	- - -	Bill of materials
023ILPMK	12	-	08.07.2020	Test Report

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Bratislava, December 04th, 2020

Ing. Dušan Perniš
General Director