



"MINPROEKT" JSC

CERTIFICATE



- [1] **EC-TYPE-EXAMINATION CERTIFICATE**
(Translation)
- [2] Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC
- [3] **EC-type-examination Certificate Number: №: MP 16 ATEX 0175 X**
- [4] **Product (Equipment or protective system): "Level Gauge SENS PMP-201"**
- [5] **Applicant: NPP SENSOR LLC**
- [6] **Address: Stroenie 5, ulica Promishlennaya, Zarechny, Penza oblast, Russia, 442960**
- [5] **Manufacturer: NPP SENSOR LLC**
- [6] **Address: Stroenie 5, ulica Promishlennaya, Zarechny, Penza oblast, Russia, 442960**
- [7] This product (equipment or protective system) and any acceptable variation thereto are specified in details in the schedule to this certificate and the documents therein referred to.
- [8] Minproekt JSC, notified body No.1877 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, 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 equipment or protective system, intended for use in potentially explosive atmospheres, specified in Annex II of the Directive.
The examination and test results are recorded in:

Confidential Test report No. 10/12.04.2016

- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012; EN 60079-1:2007; EN 60079-26:2007.
- [10] If the sign "X" is placed after the certificate number, it indicates that this equipment or protective system is subject to special conditions for safe use, specified in the schedule to this certificate.
- [11] This EC-type-examination Certificate relates only to the design and the construction of this specified equipment or protective system in accordance with Directive 94/9/EC.
This certificate does not cover the requirements of the Directive on the forthcoming procedures relating to the production process and the delivery of the product..
- [12] The marking of the product (equipment or protective system) shall include the following:



II 1/2 G Ex d IIB T6 Ga/Gb

- 50°C ≤ T_a ≤ +60°C

This certificate does not authorize the manufacturer or his authorized representative to affix the CE mark followed by the identification number of the Notified Body as well as the marketing and / or use.

This certificate is valid till 18.04.2021

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Sofia, 2016-04-18

Executive Director:
/dipl. eng H. Hubenov/



"Minproekt" JSC, Sofia 1756, Bulgaria, 14 "Kliment Ohridski" avenue
tel.: 02/975-82-20, fax: 02/975-33-48
e-mail: office@minproekt.com
www.minproekt.com

Division "Scientific and Research Activity"
tel.: 07718/2340, 07718/2240
e-mail: minproektvs@abv.bg

- [13] **Schedule**
 [14] **EC-type-examination certificate No. MP 16 ATEX 0175 X (Translation)**
 [15] **Characteristics of the type, subject to the examination**

1. Technical description

"Level gauge, type SENS PMP-201" consists of a housing, a cover, a probe and cable entries. The housing is made of aluminum alloy. The probe is made of stainless steel 12X18H10T. The float moving on the probe is made of stainless steel 12X18H10T or of foamed ebonite covered with a composite FLK-9 (FLK-2).

2. Technical data of the product.

2.1. Type designation – SENS PMP-201

2.2. Technical characteristics:

2.2.1. Electrical parameters

	SENS PMP-201	SENS PMP-201 Modbus design
Supply voltage	4 to 15V	6 to 50V
Power consumption	Not more than 200mW	Not more than 500mW
Length of power and communication line	Not more than 1,5 km	Not more than 1,5 km
Output signal	Digital, via SENS protocol	RS485 interface, Modbus protocol

3. Apppplication field

"Level gauge, type SENS PMP-201 "is designed to measure and control the parameters of liquids (fuels) in automated systems for trade report in oil, gas, chemical, food, utilities and other sectors of the industry.

[16] **Test report № 10/12.04.2016**

[17] **Special requirements for safety use - "Level gauge, type SENS PMP-201" is intended for a operating temperature range – $50^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$, different from the standard**

[18] **Essential requirements**

18.1. According to Directive 94/9/EC and the user instructions, the product is allowed for operation in hazardous areas.

18.2. Other essential safety requirements are covered by the standards pointed in [9].

[19] **List of the technical dossier parts**

19.1. Operations manual

19.2. Presented certificates

Certificate for Conformity TCRU C-RU.ГБ05.В.00333 – NANIO „CCWE” - Russia

19.3. Test reports

Reports №№ 220, 221, 222, 223, 224, 225, 226, 227, 229, 230

19.4. List of harmonized standards (Operations manual)

19.5 Constructional documentation containing:

Assurance of explosion protection of „SENS PMP-201”.

Drawings of means for explosion protection - Requirements and specifications (SENS.421411.014 ED)

19.6. Additional information:

Explanatory note №1.0216/25.02.2016

Sofia, 2016-04-18

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Division "Scientific and Research Activity"

tel.: 07718/2340,07718/2240

e-mail: minproektvs@abv.bg - Dragichevo