

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Product Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: **Presafe 21 ATEX 17657X** **Issue 0**

[4] Product: **Position Transmitter**

[5] Manufacturer: **NOVA Smar S/A**

[6] Address: **Av. Dr Antonio Furlan Jr
1028 Sertãozinho-SP
14170-480, Brazil**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 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 products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018 and EN 60079-1:2014**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates 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 in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 2 G Ex db IIC T6 Gb -20°C to + 60°C**



Date of issue:
2021-06-24



Ståle Sandstad
For DNV Product Assurance AS
The Certificate has been digitally signed.
See www.dnv.com/digitalsignatures for info

[13] **Schedule**

[14] **EU-Type Examination Certificate No:** PRESAFE 21 ATEX 17657X Issue 0

[15] **Description of Product**

The four models that this certificate covers are all position transmitters, capable of measuring displacement or movement of linear or rotary type by non-contact sensing. The models differ in their method of communication.

Type designation

TP290: Analog signal
 TP301: HART protocol
 TP302: FIELDBUS
 TP303: PROFIBUS PA protocol

Electrical Data

U= 28 VDC

Degrees of protection (IP Code)

IP66 and IP68 (10m depth for 24h)
 IP66W and IP68W (10m depth for 24h)

Ambient temperature:

-20°C to +60°C

Routine tests

None

[16] **Report No.:** 202053

[17] **Specific Conditions of Use**

- ATEX certified cable gland to be used.
- Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 3 of EN/IEC 60079-1.

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] **Drawings and documents**

Number	Title	Sheets	Rev.	Date
102A055401	TP290/301 Boards Arrangement	1	01	25.08.2000
102A057800	TP302/303 Boards Arrangement	1	00	23.02.2000
102A032005	GLL1000 Layout	4	05	30.03.2004
102A057602	GLL1016 Layout	4	02	24.10.2005
102A031903	Cable FFC/FPC Connector ZIF - GLL1019	1	03	16.12.1999
102A022703	GLL802 Layout	4	03	24.08.2004
102A024302	GLL852 Layout	6	02	05.10.2004
102A026702	GLL928 Layout	3	02	04.01.2005

LM-102-0232-03	80000024-2 - LM General Components - Fieldbus/ Profibus PA	1	03	13.11.2006
LM-102-0161-04	80000023-9 - LM General Components - HART	1	04	10.05.2006
LM-102-0359-15	80000586-5 - PCBGLL1000 Assembled for Fieldbus	13	15	30.07.2007
LM-102-0380-00	80000615-2 - PCBGLL1000 General Components	1	00	31.08.2005
LM-102-0406-04	80000707-0 - PCBGLL1016 Assembled for TP	4	04	30.07.2007
LM-102-0358-04	80000583-6 - PCBGLL1019 Assembled for FY/TP	1	04	30.07.2007
LM-102-0322-02	80000315-5 - Display-General Components	1	02	13.11.2006
LM-102-0004-08	80000143-2 - PCBGLL802 Assembled for Display	1	08	27.07.2007
LM-102-0449-06	80000780-5 - PCBGLL852 Assembled for TP290	9	06	20.08.2007
LM-102-0442-06	80000770-8 - PCBGLL852 Assembled for TP301	9	06	20.08.2007
LM-102-0321-00	80000358-2 - BCBGLL928 General Components	1	00	13.11.2006
LM-102-0255-08	80000178-8 - PCBGLL928 Assembled for FP/FY	1	08	13.11.2006
LM-102-0415-02	80000728-7 - LM Terminal Block Assembled - HART	1	02	11.01.2011
LM-102-0416-03	80000729-0 - LM Terminal Block Assembled - Fieldbus	1	03	03.04.2008
LM-102-0448-18	80000783-4 - LM TP290	1	18	10.05.2006
LM-102-0447-18	80000779-5 - LM TP301	1	18	10.05.2006
LM-102-0615-12	80001369-5 - LM TP302/303	1	12	10.05.2006
101-E-0473-00	Dimensional Drawing TP ATEX/IECEX	1	00	09.10.2020
102B056201	TP290/301 Printed Circuit Board Interconnection	1	01	25.08.2000
102B059200	TP302/303 Printed Circuit Board Interconnection	1	00	23.02.2000
102B020513	Field Devices Main Board GLL1000	4	13	06.06.2007
102B030506	Field Devices Analog Board GLL1016	1	06	06.06.2007
102B004306	Field Devices Display GLL802	1	06	06.06.2007
102B012211	Field Devices Main Board GLL852	3	11	06.06.2007
102B010103	Field Devices Isolation Cable Board GLL928	2	03	06.10.1998
102B050603	Field Devices Terminal Block	1	03	30.03.2004
102B050704	Field Devices Terminal Block	1	04	24.01.2007
102A1449	TP290 MARKING PLATE ATEX PRESAFE - EXAM/BVS IP66 IP68-10m/24h	1	05	04.02.2021
102A1450	TP301 MARKING PLATE ATEX PRESAFE - EXAM/BVS IP66 IP68-10m/24h	1	05	04.02.2021
102A1451	TP302 MARKING PLATE ATEX PRESAFE - EXAM/BVS IP66 IP68-10m/24h	1	05	04.02.2021
102A1452	TP303 MARKING PLATE ATEX PRESAFE - EXAM/BVS IP66 IP68-10m/24h	1	05	04.02.2021
102A1505	TP290 MARKING PLATE ATEX PRESAFE - EXAM/BVS IP66W IP68W-10m/24h	1	05	04.02.2021
102A1506	TP301 MARKING PLATE ATEX PRESAFE - EXAM/BVS IP66W IP68W-10m/24h	1	05	04.02.2021
102A1507	TP302 MARKING PLATE ATEX PRESAFE - EXAM/BVS IP66W IP68W-10m/24h	1	05	04.02.2021
102A1508	TP303 MARKING PLATE ATEX PRESAFE - EXAM/BVS IP66W IP68W-10m/24h	1	05	04.02.2021

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2021-06-24	202053

END OF CERTIFICATE