

[1] EC-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protected System Intended for use
in Potentially explosive atmospheres
Directive 94/9/EC

[3] EC-Type Examination Certificate Number: Nemko 00ATEX308 Issue 5

[4] Equipment or Protective System: Pressure Converter
[5] Applicant/ Manufacturer: Smar Equipamentos Industriais Ltda.
[6] Address: Av. Dr. Antonio Furlan Jr., 1028
Sertãozinho -SP-14160.000
Brazil

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

[8] Nemko AS, notified body number 0470 in accordance with Article 9 of 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 and protective systems 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. 152560

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
CENELEC EN 60079-0: 2009 and CENELEC EN 60079-1: 2007

[10] 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.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests 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.

[12] The marking of the equipment or protective system shall include the following:



II 2G

Ex d IIC T6 Gb T_a : +60°C

Oslo, 2011-02-15



Rolf Hoel
Certification Manager, Ex-products

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[13] Schedule**[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 00ATEX308 Issue 5****[15] Description of Equipment or Protective System**

The equipment is a converter mainly intended for interface of a fieldbus system to pneumatically actuated control valve, or a positioner.

Only cable glands certified according to EN 60079-0 and EN 60079-1 must be used.

Type Designation

FP302 and FP303

Technical Data

Electrical: 9-32 VDC

Pressure: 18-100 psi.

Ingress Protection Code

IP66W tested in a saturated solution of NaCl 5% w / w, at 35°C for a period of 200 h.

[16] Report No. 152560**Descriptive Documents**

Name/Number	Rev.	Date	Title/Description	Sheets
101E037900	0	2008-03-05	Mechanical drawing	1
102B022710	10	2007-06-06	Schematic PCB GLL1007	4
102A032305	5	2004-03-30	Layout PCB GLL1007	4
102B004306	6	2007-06-06	Schematic PCB GLL802	1
102A022703	3	2004-08-24	Layout PCB GLL802	4
102B010103	3	1998-10-06	Schematic PCB GLL928	2
102A026702	2	2007-01-04	Layout PCB GLL928	3
102B050703	3	2004-03-30	Terminal Block 302/303 series	2
102A1273-01	1	2010-08-13	FP302 NEMKO/EXAM Ex ia / Ex d - IP66	1
102A1488-01	1	2008-05-15	FP302 NEMKO/EXAM Ex ia / Ex d - IP66W	1
102A1274-01	1	2010-08-13	FP303 NEMKO/EXAM Ex ia / Ex d - IP66	1
102A1489-01	1	2010-08-13	FP303 NEMKO/EXAM Ex ia / Ex d - IP66W	1
101E064604	4	2007-07-31	Schematic PCB GLL1143	1
102B088401	1	2007-07-31	Layout PCB GLL1143	4

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Certificate History and Associated Nemko Reports

Issue	Date	Report	Description
0	2000-09-27	200003101	Prime Certificate released
1	2001-10-15	200140161	The certificate is extended to include minor modifications of components and the PCBs. The modifications do not alter the safety characteristics of the transmitter.
2	2006-06-01	63432	Revised documents. Minor changes of electronic components and PCB layout.
3	2006-07-13	70124	Revised documents. Minor changes of electronic components and PCB layout.
4	2010-05-31	126748	The Certificate is extended to include an upgrade to IP66W and pressure to 18-100 psi.
5	2011-02-15	152560	The Certificate is extended to include an update to new standards.

[17] Special Conditions for Safe Use

None

[18] Essential Health and Safety Requirements

See item 9

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