

[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 08ATEX 1144X Issue 1

[4] Equipment or Protective System: I/P Converter

[5] Applicant/ Manufacturer: Palmstierna International AB

[6] Address: Korta Gatan 9
17154 Solna
Sweden

[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. 170126

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

CENELEC EN 60079-0: 2009 and CENELEC EN 60079-11:2007

[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 ia IIC T6/T5/T4

Oslo, 2011-11-09



Asle Kaastad
Certification Manager, Ex products

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[13] Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE No **Nemko 08ATEX1144X** Issue 1

[15] Description of Equipment or Protective System

The I/P Signal Converter converts electrical into pneumatic standard signals, e.g. 4 – 20mA into 0,2 – 1 bar.

Type Designation

E5-IS

Technical Data

Temperaturclass	Ambient temperature	Ii	Ui	Pi	Ci	Li
T6	"-55°C to +60°C	50mA	42,5V	531mW	Negligible	Negligible
T6	"-55°C to +55°C	60mA	38,8V	582mW	Negligible	Negligible
T5	"-55°C to +70°C	60mA	38,8V	582mW	Negligible	Negligible
T4	"-55°C to +85°C	60mA	38,8V	582mW	Negligible	Negligible
T5	"-55°C to +55°C	100mA	30V	750mW	Negligible	Negligible
T4	"-55°C to +85°C	100mA	30V	750mW	Negligible	Negligible
T5	"-55°C to +45°C	120mA	28V	840mW	Negligible	Negligible
T4	"-55°C to +80°C	120mA	28V	840mW	Negligible	Negligible
T4	"-55°C to +70°C	150mA	25,5V	956mW	Negligible	Negligible

Ingress Protection Code

None

[16] Report No. 170126

Descriptive Documents

Name/Number	Rev.	Date	Title/Description	Sheets
IP-C651	1	09-04-29	Marking Plate ATEX	1
IP-652	0	07-07-04	Serial number Plate	1
IP-653	1	08-08-25	Control Drawing / Barrier drawing, IP	1
IP-AS3ISC	0	07-08-06	IP-AS3ISC	1
PMV IP AS1-AS2 BOARD CONNECTION	1	07-06-15	PMV IP AS1-AS2 BOARD CONNECTION	1
PMV IP Modelcodes	1	07-05-15	PMV IP MODELKODER	1
PMV IP AS2I Description	1	07-06-15	PMV IP AS2 DESCRIPTIVE DOCUMENT	2
PMV IP BOM AS2I	1	07-06-19	PMV IP BOM AS2I	2
PMV IP AS2I scheme	1	07-05-30	IP AS2	1
PMV IP AS2I C	1	07-06-19	PMV IP AS2I C	1
PMV IP AS2I DIMENSION	1	07-06-19	PMV IP AS2I DIMENSION	1
PMV IP AS2I L1	2	07-06-19	PMV IP AS2 L1	1
PMV IP AS2I L2	1	07-06-19	PMV IP AS2I L2	1
IP-AS5	1	10-06-21	PMW Positioner	1

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PMV IP ASII DESCRIPTIVE DOCUMENT	1	07-06-19	PMV IP AS1 DESCRIPTIVE DOCUMENT	2
PMV IP ASII BOM	1	07-06-19	PMV IP BOM ASII	1
PMV IP ASII I Scheme	1	07-06-18	IP-ASII R1	1
PMV IP ASII C	1	07-06-28	PMV IP ASII C	1
PMV IP ASII DIMENSION	1	07-06-28	PMV IP ASII DIMENSION	1
PMV IP ASII L1	1	07-06-19	PMV IP ASII L1	1
PMV IP ASII L2	1	07-06-19	PMV IP ASII L2	1
BZG05-C6V8	1.8	04-03-08	BZG05-C6V8	4
FR4-s1141		06-09-08	FR4-s1141	1
SikaForce7322L130PB	10/2004	05-09-26	SikaForce7322L130	2
628-r1-070228	1	07-02-28	IP-COIL	1
IPIOM.080422		08-04-22	I/P Converter	4

Certificate History and Associated Nemko Reports

Issue	Date	Report	Description
0	2008.08.28	81727	Prime Certificate released
1	2011.11.07	170126	Update of the EN 60079-0 standard and new alternative casting compound added.

[17] Special Conditions for Safe Use

The I/P converter has to be installed in an enclosure that satisfies the following clauses:

- Complies with "electrostatic charge" requirements in EN 60079-0, clause 7.4
- A suitable degree of protection minimum IP20 according to 6.1 in EN 60079-11
- Shall not contain, by mass, more than 7,5% in total of magnesium. according to clause 8.1 in EN 60079-0
- According to descriptive document: IP-653.
- Shall withstand dielectric strength test with 500V AC for 1 minute according 6.3.12 in EN 60079-11

[18] Essential Health and Safety Requirements

See item 9

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