



MARINE DIVISION

COPY

Certificate number: 36693/A0 BV

File number: AP 4464

Product code: 3881H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

APLISENS S.A.
WARSZAWA - POLAND

for the type of product

PRESSURE CONTROLLERS

Pressure Transmitters type PCE-28, PCE-28P, PCE-28.SMART, APC-2000ALW,
 Differential Pressure Transmitters type PRE-28, PRE-28.SMART, APR-2000ALW

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 21 Dec 2018

For BUREAU VERITAS,

At BV GDANSK, on 21 Dec 2013,

Janusz URBAN



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Pressure Transmitter and Differential Pressure Transmitters:

PCE-28 Family	Supply Power	Output Signal	Ingress Protection
Pressure transmitter PC-28	10.5-36 VDC	4-20mA or 0-10V	IP65 or IP67 or IP68
Pressure transmitter PCE-28	10.5-36 VDC	4-20mA or 0-10V	IP65 or IP67 or IP68
Differential pressure transmitter PRE-28	10.5-36 VDC	4-20mA or 0-10V	IP65 or IP67 or IP68
Hydrostatic level transmitter PCE-28P	10.5-36 VDC	4-20mA or 0-10V	IP65 or IP67 or IP68

PCE-28.Smart Family	Supply Power	Output Signal	Ingress Protection
Smart pressure transmitter PC-28Smart	7.5-55 VDC	4-20mA+ HART	IP65 or IP67 or IP68
Smart pressure transmitter PCE-28Smart	7.5-55 VDC	4-20mA+ HART	IP65 or IP67 or IP68
Smart differential pressure transmitter PRE-28Smart	7.5-55 VDC	4-20mA+ HART	IP65 or IP67 or IP68

APC-2000ALW Family	Supply Power	Output Signal	Ingress Protection
Smart pressure transmitter APC-2000ALW	13.5-28 VDC	4-20mA	IP66
Smart pressure transmitter APR-2000ALW	13.5-28 VDC	4-20mA	IP66

2. DOCUMENTS AND DRAWINGS:

- User's Manual :

DTR.APC.APR.ALW.03, dated January 2013

DTR.PCE.PRE-28, dated February 2013

DTR.PCE.PRE-28.Smart.01, dated October 2013

- APLISENS Technical specification, dated 15.02.13

- APLISENS product Catalogue 2013-2014

- Drawings

PC28-A114-TA or PC28-A121-TA; PR28-A114-TA or PR28-A122-TA; PC28P-A001-TA ; PC28-S032-02 or PC28-S121-00; PC18-S001-01

PR28S-A002-TA; PC28S-A002-TA; PC28S-S001-01

APC2000-A614-TA; APR2000-A615-TA; APC2000-S611-02; PC28S-S001-01

3. TEST REPORTS:

Issued by IEL (The Electrotechnical Institute) Gdansk

- PCE-28 Family:

No. 044/LMC-822/2013 dated 14.05.2013

No. 049/LBS-822/2013 dated 29.05.2013

No. 046/LMC-967/2009, dated 24.03.2009

No. 019/LBS-967/2009, dated 30.03.2009

No. 047/LMC-967/2009, dated 23.03.2009

No. 020/LBS-967/2009, dated 30.03.2009

No. 048/LMC-967/2009, dated 23.03.2009

No. 026/LBS-967/2009, dated 30.03.2009

- PCE-28.Smart Family:

No. 045/LMC-822/2013 dated 14.05.2013

No. 050/LBS-822/2013 dated 29.05.2013

No. 049/LMC-967/2009, dated 24.03.2009

No. 024/LBS-967/2009, dated 30.03.2009

No. 050/LMC-967/2009, dated 24.03.2009

No. 017/LBS-967/2009, dated 30.03.2009

- APC-2000ALW Family:

No. 046/LMC-822/2013 dated 14.05.2013

No. 051/LBS-822/2013 dated 29.05.2013

No. 027/LMC-968/2009, dated 17.03.2009

No. 015/LBS-968/2009, dated 16.03.2009

No. 028/LMC-968/2009, dated 17.03.2009

No. 016/LBS-968/2009, dated 16.03.2009

- Ex certificate IECEX FTZU 13.0004X, dated 2013-06-12

- Ex certificate IECEX KDB 12.0010X, dated 2012-06-19

4. APPLICATION / LIMITATION:

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - BUREAU VERITAS Environmental Category, **EC Code: 33S.**

4.4 - The equipment, once installed on board ship, is to be tested in accordance with the above referred Regulations under the supervision of a Society's Surveyor.

4.5 - Ex-certification is not covered by this certificate, Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.

Product	Certificate	Ex Marking
PCE-28 Family	FTZU 12 ATEX 0193X dated 04.04.2013	I M1 Ex ia I Ma II 1/2G Ex IIC T4/T5/T6 Ga/Gb III 1D Ex ia IIIC T110°C Da
	IECEX FTZU 13.0004X dated 12.06.2013	Ex ia I Ma Ex ia IIC T4/T5/T6 Ga/Gb Ex ia IIIC T110°C Da
PCE-28.Smart Family	KDB 12 ATEX 0071X dated 16.05.2012	I M1 Ex ia I Ma II 1/2G Ex IIC T4/T5/T6 Ga/Gb II 1D Ex ia IIIC T105°C Da
	IECEX KDB 12.0010X dated 19.06.2012	Ex ia I Ma Ex ia IIC T4/T5/T6 Ga/Gb Ex ia IIIC T105°C Da
APC-2000ALW Family	KDB 08 ATEX 0224X, issue 4 dated 01.07.2013	I M2 Ex d ia I Mb II 1/2G Ex ia/d IIC T6/T5 Ga/Gb II 1/2D Ex ia/t IIIC T85°C/T100°C Da/Db
	FTZU 08 ATEX 0020X issue 4 dated 07.03.2013	I M1 Ex ia I Ma II 1/2G Ex IIB T4/T5 Ga/Gb II 1/2G Ex IIC T4/T5 Ga/Gb II 1D Ex ia IIIC T105°C Da

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **Aplisens S.A.** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - **Aplisens S.A.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

Aplisens S.A.
ul. Morelowa 7
03-192 WARSZAWA
POLAND

6. MARKING OF PRODUCT:

- Trade name.
- Date of manufacture and serial number.
- Equipment type number or model identification under which it was type-tested.
- Ex marking, as relevant.

7. OTHERS:

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **Aplisens S.A.- ul. Morelowa 7 - 03-192 WARSZAWA - POLAND** will accept full responsibility for informing shipbuilders, ship-owners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

*** END OF CERTIFICATE ***