

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com					
Certificate No.:	IECEx FTZU 13.0004X	Page 1 of 5	Certificate history:		
Status:	Current	Issue No: 2	Issue 1 (2016-03-09) Issue 0 (2013-06-12)		
Date of Issue:	2018-04-04				
Applicant:	APLISENS S.A. Morelowa 7 03-192 Warszawa Poland				
Equipment:	Pressure transmitter PC-28, PCE-28, PC-28E PRE-28, PR-28Ex Safety, PRE-28Ex Safety H				
Optional accessory:					
Type of Protection:	Intrinsic safety				
Marking:	Ex ia I Ma Ex ia IIC T4/T5/T6 Ga/Gb Ex ia III C T110°C Da Ex ia IIC T4 Ga/Gb – (for transmitters with connection ALW, ALM)				
Approved for issue or	behalf of the JECEx	Dipl. Ing. Lukáš Martinák			
Approved for issue on behalf of the IECEx Certification Body:		Dipi. ing. Lukas Martinak			
Position:		Head of Certification Body			
Signature: (for printed version)					
Date:					
2. This certificate is not	chedule may only be reproduced in full. transferable and remains the property of the issuing body. Inticity of this certificate may be verified by visiting www.ied	ex.com or use of this QR Code.			
(Physical -Techn	by: cky zkusebni ustav ical Testing Institute) I7 Ostrava - Radvanice				



Certificate No .:	IECEx FTZU 13.000	4X	Page 2 of 5	
Date of issue:	2018-04-04		Issue No: 2	
Manufacturer:	APLISENS S.A. Morelowa 7 03-192 Warszawa Poland			
Additional manufacturing locations:				
IEC Standard list bel found to comply with	ow and that the manufa	acturer's quality system, relating t em requirements.This certificate	oduction, was assessed and tested and found to comply with the o the Ex products covered by this certificate, was assessed and is granted subject to the conditions as set out in IECEx Scheme	
STANDARDS : The equipment and a to comply with the fo		ns to it specified in the schedule o	of this certificate and the identified documents, was found	
IEC 60079-0:2011 Edition:6.0	Explosive atmospher	es - Part 0: General requirement	5	
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"			
		oes not indicate compliance with than those expressly included in	safety and performance requirements the Standards listed above.	
TEST & ASSESSME A sample(s) of the ed		cessfully met the examination an	d test requirements as recorded in:	
Test Reports:				
CZ/FTZU/ExTR13.00	005/00	CZ/FTZU/ExTR13.0005/01	CZ/FTZU/ExTR13.0005/02	
Quality Assessment	Reports:			
PL/KDB/QAR12.000	1/02	PL/KDB/QAR12.0001/03		



Certificate No.: IECEx FTZU 13.0004X

Date of issue: 2018-04-04

Page 3 of 5

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The device is used as a pressure transmitter (PC*-28*), or differential pressure transmitter (PR*-28*), or hydrostatic level probe (PC*-28P). The device converts non electrical process variable, which is pressure, into electrical 4...20mA output signal. It consists of measurement head including pressure sensor (various types), fully encapsulated main PCB (additional small auxiliary PCBs might exists depending on version), steel cylindrical enclosure, cable connector (various types: with cable gland or fixed external cable).

SPECIFIC CONDITIONS OF USE: YES as shown below:

Conditions for safe use:

1. Ambient temperature range - see Instruction manual and marking label.

2. Process temperature (medium) at the diaphragm of the transmitter must be in range of ambient temperature.

3. In case of use the transmitter in dust atmosphere, supplying voltage could occur on transmitter enclosure. It should be taken into consideration during transmitter installation.

4. In case of use titan parts in diaphragm seal, during installation and operation of the device the diaphragm seal should be protected against mechanical impact.

5. Version of the transmitter with surge arrester, marked on the plate "Version SA", does not meet the requirements of Section 6.3.13 of IEC 60079-11:2011 (test of isolation 500VAC). This must be taken into account during the installation of transmitters.

6. Transmitters with display (with electrical connections ALW, ALM) and with diaphragm seals covered by PTFE, for Group III, should be installed in a place and in a way that prevents electrostatic charging



Certificate No.: IECEx FTZU 13.0004X

2018-04-04

Date of issue:

Page 4 of 5

Issue No: 2

Equipment (continued):

Parameters:

Ambient temperature range:

For Group I: -40 to +80°C for Pi=1.2W

For Group II: -40 to +45°C for Pi=0.7W, temp. class T6 -40 to +80°C for Pi=0.7W, temp. class T5 -40 to +75°C for Pi=1.2W, temp. class T5 -40 to +80°C for Pi=1.2W, temp. class T4

For Group III: -40 to +80°C for Pi=1.2W and Tsurface=110°C

Intrinsically safe parameters:

Power supply with linear output characteristic: Ui=28VDC, Ii=0.1A, Pi=0.7W, Ci=25nF+cable capacitance*, Li=0,4mH+cable inductivity*

Power supply with trapezoidal or rectangular output characteristic: Ui=24VDC, Ii=0.1A, Pi=1.2W, Ci=25nF+cable capacitance*, Li=0,4mH+cable inductivity* * - concerns versions with PK(M) and SG(M) connectors; cable parameters C=200pF/m, L=1µH/m

See instructions for use:

DTR.PC.PR-28 Safety for PC-28 Safety, PC-28Ex Safety, PR-28 Safety, PR-28Ex Safety DTR.PC.PR-28.02 for PC-28, PR-28, PC-28P DTR.PCE.PRE-28 Safety for PCE-28 Safety, PCE-28Ex Safety, PRE-28 Safety, PRE-28Ex Safety DTR.PCE.PRE-28.02 for PCE-28, PRE-28, PCE-28P



Date of issue:

IECEx Certificate of Conformity

Certificate No.: IECEx FTZU 13.0004X

2018-04-04

Page 5 of 5

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Added versions of pressure transmitters and differential pressure transmitters with electrical connections type ALM. Transmitters with electrical connection ALM are equipped with LCD display mounted on the plate AM1-rev2 enclosed in light alloy housing with PM12 or PD connector. Transmitters with electrical connection ALM equipped with PM12 connector are allowed only to hazardous gas explosive atmospheres (Group II). Transmitters with ALM connection with connector PD are allowed for gas and dust hazardous explosive atmospheres (Group II and Group II).

Products PC-28 or PCE-28 with diaphragm seals can be equipped with heat shrinkable sleeve.

Added the ability to use layer of PTFE thickness max. 0,15 mm covering the surfaces of pressure separators.

Introduced other minor changes do not affect the intrinsic safety.

Other technical parameters, intrinsically safe parameters and construction of apparatus remain unchanged.