

IECEx Certificate of Conformity

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 14.0026X	Page 1 of 4 <u>Certificate history:</u>
Status:	Current	Issue No: 2 Issue 1 (2017-01-30 Issue No: 2 Issue 0 (2015-03-09
Date of Issue:	2022-08-04	
Applicant:	APLISENS S.A. ul. Morelowa 7 03-192 Warszawa Poland	
Equipment:	APR-2000ALW/GXX, A	pe APC-2000ALW/XX, Differential Pressure Transmitters type APR-2000ALW/XX, R-2000ALW/LXX, Level Probe type APR-2000YALW, Level Transmitter type Density Transmitter type APR-2200ALW/D
Optional accessory:		
Type of Protection:	Intrinsic safety	
Marking:	Ex ia I Ma	(version with enclosure ss316)
	Ex ia IIB T4/T5 Ga/Gb	(version with teflon-shielded cable) (version with PTFE covered separator)
	Ex ia IIC T4/T5 Ga/Gb	
	Ex ia IIIC T115°C Da	
Approved for issue of	on behalf of the IECEx	Dipl. Ing. Martin Gregor
Certification Body:		
Position:		Vice Head of Certification Body
Signature: (for printed version)		
Date: (for printed version)		
2. This certificate is no	schedule may only be reproduce t transferable and remains the p nenticity of this certificate may be	
Certificate issue	d by:	
(Physical -Tech	icky zkusebni ustav nical Testing Institute) 607 Ostrava - Radvanice	

TECEX		IECEx Certificate of Conformity
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Date of issue:	2022-08-04	Issue No: 2
Manufacturer:	APLISENS S.A. ul. Morelowa 7 03-192 Warszawa Poland	
Manufacturing locations:		
This certificate is is	sued as verification that a sample	(s), representative of production, was assessed and tested and found to comply with the

Inis certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

CZ/FTZU/ExTR14.0026/00

CZ/FTZU/ExTR14.0026/01

CZ/FTZU/ExTR14.0026/02

Quality Assessment Report:

PL/KDB/QAR12.0001/05



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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Pressure Transmitter type APC-2000ALW/XX, Differential Pressure Transmitters type

APR-2000ALW/XX, APR-2000ALW/GXX, APR-2000ALW/LXX, Level Probe type APR-2000YALW, Level Transmitter type APC-2000ALW/LXX and Density Transmitter type APR-2200ALW/D

are designed to convert process pressure measurements into a 4 to 20 mA current signal. The apparatus comprises a sensor, several printed circuit boards and a liquid crystal display all housed in a light alloy enclosure or stainless steel enclosure. One of the housing cover contains a window. In version with a sensor placed on a cable in the transmitter's type designation before a symbol of process connection is placed letter L e.g. APC-2000ALW/LXX. External connections are made via an integral terminal block.

Intrinsically safe input power supply parameters:

Linear power supply output characteristic: Ui = 30 V; Ii = 0,1 A; Pi = 0,75 W; temperature class T5

Trapezoidal power supply output characteristic: Ui = 24 V; li = 50 mA; Pi = 0,7 W; temperature class T5

Rectangular power supply output characteristic: Ui = 24 V; Ii = 25mA, Pi = 0,6 W; temperature class T5 Ui = 24 V; Ii =50mA, Pi = 1,2 W; temperature class T4

Intrinsically safe parameters $Ci = 2,5 \text{ nF}; Li = 18 \mu H,$

Range of permissible ambient temperature : Ta = - 50°C to +80°C for Group II Range of permissible ambient temperature : Ta = - 40°C to +80°C for Group I and III

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. Versions of transmitter with surge arrester marked on plate "SA", do not meet the requirements of Section 10.3 of the standard EN 60079-11:2012 (500Vrms). This must be taken into account when installing the equipment.
- Under certain extreme circumstances in dust explosive atmospheres, the device with painting of enclosure and with plastic tables and with 2. elements of diaphragm seals covered by PTFE may store an ignition-capable level of electrostatic charge. The device shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge.
- If the diaphragm seal contains titan parts, it must be protected against mechanical drops.
- Galvanically separated part of apparatus placed into measuring head is electrically connected with mass of enclosure. It should be taken into account when installing the apparatus with remote measuring head on cable.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Renaming current type names: APR-2000GALW to APR-2000ALW/G; APR-2200ALW to APR-2000ALW; APR-2200ALW/L to APR-2000ALW/L

The surface temperature in dust explosive atmosphere is changed to 115° C.

Formerly marking Ex ia IIIC T105 °C Da is changed to Ex ia IIIC T115° C Da. Changed these PCBs and components, MPC5-FHI-Exi-Exd-rev1 updated to rev2, MPC5-FHI-rev1-Ex removed, bushing assembly assembled with PCB MPC5-FHI-rev1-Ex, booth removed, differential pressure head GR40-001-TA removed, MPC5-rev1.2 removed, MPC5-rev3.002 added, MPC5-AD-rev6.0 added, culvert assembly assembled with PCB MPC5-FHI-Exi-Exd-rev2 added, differential pressure heads GR40-108-TA, GR40-109-TA added.

Change of "mass" mounting technology from screwed to solder.

Minor mechanical changes in construction of pressure heads.

There are minor changes in used electrical components and mechanical parts.

Added the possibility of 0.35 mm PTFE foil on diaphragm seal membrane, only for Group IIB.

Introduction of the cable in a Teflon tube braided with steel sheathing.

Introduced 5x7 steel sheathed cable

Updating and correction of documentation.