1 EU-Type Examination Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **ExVeritas 25 ATEX 2172X** Issue: **0** Date: **2025/08/26**

4 Equipment: **Loop Powered Temperature Transmitters**

5 Manufacturer **APLISENS S.A.**

6 Address **ul. Morelowa 7,**
03-192 Warszawa
POLAND

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2804 in accordance with Chapter 4 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive.

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN 60079-0:2018+A11:2024 **EN 60079-11:2012**

10 If the sign “X” is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in section 15 of this certificate.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. 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 shall include the following:

II 1 G/D
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
T_{amb} -40°C to +85°C

DANAK
PROD Reg.No. 7044
Member of EA MLA

On behalf of ExVeritas

Peter T. Lauritzen

13 Description of Equipment or Protective System

The ATX-3 and GIX-22-3 temperature transmitters are designed to accept inputs from a range of temperature sensors and convert these to standard industrial 4-20 mA output signals. The ATX-3 accepts inputs from resistance devices (RTD or slide wire type) and the GIX-22-3 accepts inputs from thermocouple devices. These devices must conform to the requirements for simple apparatus (refer to Special Conditions of Safe Use). The equipment comprises a single PCB within a small plastic circular enclosure with external screw type terminal connections for signal and sensor connections. The enclosure is fully encapsulated after assembly. The transmitters are to be fitted inside a suitably certified enclosure.

Table of entity parameters				
	ATX-3		GIX-22-3	
Parameter	+/-	1 / 2 / 3	+/-	1 / 2 / 3
Ui	30 V	1.5 V	30 V	1.5 V
Ii	100 mA	-	100 mA	-
Pi	750 mW	-	750 mW	-
Ci	0	1.5 uF	0	10 nF
Li	0	0	0	0
Uo	-	5 V	-	5 V
Io	-	2 mA	-	55 mA
Po	-	65 mW	-	0.62 mW

14.1 Associated Report and Certificate History

Number	Report Issue Date	Issue	Description
R5705/A/1	2025-08-26	0	Initial issue of the Prime Certificate.

14.2 Technical Documents

Title	Drawing Number	Revision Level	Date
TEMPERATURE TRANSMITTERS ATX-3 USER'S MANUAL	EN.IO.ATX.3	01.A.002	July 2025
TEMPERATURE TRANSMITTERS GIX-22-3 USER'S MANUAL	EN.IO.GIX.22.3	01.A.002	July 2025
Tabliczki ATX-3	MCK/KR-176-00-25	1	07.2025
Tabliczki GIX-22-3	MCK/KR-175-00-25	1	07.2025

15 Special Conditions for Safe Use

1. For gas applications, the ATX-3 and GIX-22-3 temperature transmitters must be mounted in a suitably certified ATEX/IECEx enclosure with a minimum IP 2X rating for its intended installation and located in an area where the enclosure will not be subject to impact or friction.
2. For dust applications, the GIX-22-3 and ATX-3 temperature transmitters must be mounted in a suitably certified ATEX/IECEx enclosure for its intended installation with a minimum IP 5X rating to ensure that there is no dust layer on the temperature transmitters in the final installation or IP 6X
3. The equipment shall only be configured by means of the separately certified USBTTX Config device outside of a hazardous area. (IECEx EMT 16.0030X, ATEX EMT 16ATEX0050X & CML 21UKEX2527X). The temperature sensor must be located in the safe area when being used with the USBTTX Config device.
4. If the equipment is mounted in an enclosure with separate IS circuits, appropriate segregation shall be provided in accordance with IEC 60079-11 Ed 6 Clause 6.2.1
5. GIX-22-3 – Only for connection to suitable thermocouples. These shall conform to the requirements for simple apparatus as defined in IEC 60079-11 Ed 6 Clause 5.7 and pass a dielectric strength test in accordance with IEC 60079-11 Ed 6 Clause 6.3.13.
6. ATX-3 – Only suitable for connection to RTD temperature sensors or slide wire resistance devices. They shall conform to the requirements for simple apparatus as defined in EN 60079-11 Clause 5.7 and shall pass a dielectric strength test in accordance with IEC 60079-11 Ed 6 Clause 6.3.13.
7. The ambient temperature range of the enclosure will limit the permitted ambient range of the overall equipment. Refer to the enclosure certification.

16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this certificate and associated report.