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 SEV 22.0027X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2024-03-06) Issue 0 (2023-10-11)
Date of Issue:	2024-04-22		
Applicant:	**WIKA Alexander Wiegand SE & Co. KG** Alexander-Wiegand-Stasse 30 63911 Klingenberg **Germany**		
Equipment:	**Telemetry Unit, Type: NETRIS®2LM or NETRIS®2-*L3***		
Optional accessory:			
Type of Protection:	**ia**		
Marking:	Ex ia [ia Ga] IIC T3 Ga		

Approved for issue on behalf of the IECEx Certification Body: **Munira Gamma**

Position: **Manager Product Certification**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Eurofins Electric & Electronic Product Testing AG
Luppmenstrasse 3
8320 FEHRALTORF .
Switzerland

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Date of issue: 2024-04-22 Issue No: 2

Manufacturer: **WIKA Alexander Wiegand SE Co. KG**
Alexander-Wiegand-Straße 30
63911 Klingenberg
Germany

Manufacturing locations:

This 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 Report:

CH/SEV/ExTR22.0028/02

Quality Assessment Report:

DE/BVS/QAR07.0010/19

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Refer to Annexe.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Under certain extreme circumstances, the non-metallic enclosure may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conductive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Editorial changes of intrinsic safe parameters. No technical changes.

Annex:

IECEx SEV_22.0027X_Annexe i2.pdf

Equipment: **Telemetry Unit, Type: NETRIS®2LM or NETRIS®2-*L3***

Description of product
NETRIS®2LM products are telemetry units designed for remote measurement. Data transmission is done by means of short range (Radio Frequency). NETRIS®2LM or NETRIS®2-*L3* is self-powered by a battery pack (with primary and secondary cells). The module is mainly connected to a 4-20mA sensor for measuring different data (for ex : temperature, liquid level, flowrate, etc...).

Classification of installation and use:	Fixed
Ingress protection:	IP20
Rated ambient temperature range (°C):	-40 °C to +60 °C

Ratings:
Use of a manufacturer specific battery pack type or BN2D150 with a nominal voltage of 3.6 V.

Output parameters for the Sensor sub circuit:
U_o ≤ 26 V
I_o ≤ 90 mA
P_o ≤ 550 mW
Ci = 3.6 nF
Li = 0.3 mH

The following tables show the combinations of Lo and Co including occurring line reactance for the connection to the Sensor sub circuit in the respective gas group verified using the ISPARK-calculation program. The internal capacitance Ci = 3.6 nF and inductance Li = 0.3 mH is already taken into account. The maximum values for Lo and Co are highlighted in grey.

Maximum allowed capacitance and inductance for gas group IIB:

C_o [nF]	446	486	566	686
L_o [mH]	25.7	19.7	9.7	4.7

Maximum allowed capacitance and inductance for gas group IIC:

C_o [nF]	37	43	60	78
L_o [mH]	2.2	1.7	0.7	0.2

Part number code:
NETRIS®2LM-L1 or NETRIS®2-*L3*: L1 refers to LoRa modulation

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Product Testing AG

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