



- (1) **EU-Type Examination Certificate**
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 22 ATEX 0623 X**
- (4) Product: Telemetry Unit, Type: NETRIS®2LM or NETRIS®2-*L3*
- (5) Manufacturer: WIKA Alexander Wiegand SE & Co. KG
- (6) Address: Alexander-Wiegand-Strasse 30, 63911 Klingenberg, Germany
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no 21CH-00945OR06.X03
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
- EN IEC 60079-0:2018**
EN 60079-11:2012
- Except in respect of those requirements listed at item 18 of the schedule.
- (10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- (11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



II 1(1)G Ex ia [ia Ga] IIC T3 Ga

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Munira Gamma
Product Certification



Appendix

(13)

(14)

EU-Type Examination Certificate no. SEV 22 ATEX 0623 X

(15) **General product information**

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...).

Ratings:

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

Classification of installation and use:

Fixed

Ingress protection:

IP20

Rated ambient temperature range (°C):

-40 °C to +60 °C

Output parameters for the Sensor sub circuit:

$U_o \leq 26 \text{ V}$

$I_o \leq 90 \text{ mA}$

$P_o \leq 550 \text{ mW}$

$C_i = 3.6 \text{ nF}$

$L_i = 0.3 \text{ mH}$

The following tables show the combinations of L_o and C_o 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 $C_i = 3.6 \text{ nF}$ and inductance $L_i = 0.3 \text{ mH}$ is already taken into account. The maximum values for L_o and C_o 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

(16)

Report number

21CH-00945OR04.X02

(17)

“Special conditions for safe use” / “Schedule of limitations”

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 conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.



(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(19) **Drawings and Documents**

See test report "Manufacturer's Documents"

