



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **KIWA 20ATEX0022** Issue: **2**

4 Equipment: **Modem – Datalogger Type UNICOM 300 N531**

5 Applicant: **Wigersma & Sikkema**

6 Address: **Leigraafseweg 4
6983 BP Doesburg
The Netherlands**

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

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0: 2018 EN 60079-11: 2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II (1) G
[Ex ia Ga] IIC
Ta = -40°C to +60°C

Project Number 80093867

Signed: J A May

Title: Director of Operations

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR Arnhem, The Netherlands





SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The Modem – Datalogger Type UNICOM 300 N531 is used for wireless communication of data from and to equipment to which it is connected via a pulse or serial interface.

The unit is provided with a number of indicator LED's, a key for control, an infrared service interface and a pulse output. Optionally it can be equipped with an internal or external back up battery.

Ambient temperature range -40°C to +60°C.

Radio interface (GSM): Transmitted power < 3.5 W.

Electrical data

AC Supply circuit (CON101 L and N):

$U_n = 230 \text{ Vac}$; 0.5 W, 0.1 A; $U_m = 250 \text{ Vac}$.

12 V rechargeable battery input (CON102 + and -):

$U_m = 250 \text{ Vac}$.

DC Supply circuit (CON103 + and -):

$U_n = 12 - 30 \text{ Vdc}$; 0.5 W, 0.6 A; $U_m = 250 \text{ Vac}$.

Pulse Output circuit (terminal 9, 10 and 11):

$U_n = 20 \text{ Vdc}$; $U_m = 250 \text{ Vac}$.

External Supply output circuit (CON202 + and -):

in type of protection intrinsic safety Ex ia IIC or IIB, with the following maximum values:

$U_o = 8,7 \text{ V}$; $I_o = 580 \text{ mA}$; $P_o = 1,3 \text{ W}$; $C_o = 5,7 \mu\text{F}$; $L_o = 0,1 \text{ mH}$.

Namur circuit (terminal 1 and 2):

in type of protection intrinsic safety Ex ia IIC or IIB, with the following maximum values:

$U_o = 9,6 \text{ V}$; $I_o = 10 \text{ mA}$; $P_o = 24 \text{ mW}$; $C_o = 3 \mu\text{F}$; $L_o = 100 \text{ mH}$.

and/or

in type of protection intrinsic safety Ex ia IIC or IIB, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 9,6 \text{ V}$; $I_i = 10 \text{ mA}$; $P_i = 10 \text{ mW}$; $C_i = 0 \mu\text{F}$; $L_i = 0 \text{ mH}$.

Pulse input circuit (terminal 3, 4 and 5):

in type of protection intrinsic safety Ex ia IIC or IIB, with the following maximum values:

$U_o = 6,5 \text{ V}$; $I_o = 12 \text{ mA}$; $P_o = 20 \text{ mW}$; $C_o = 24 \mu\text{F}$; $L_o = 100 \text{ mH}$.

and/or

in type of protection intrinsic safety Ex ia IIC or IIB, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 6,5 \text{ V}$; $I_i = 10 \text{ mA}$; $P_i = 10 \text{ mW}$; $C_i = 0 \mu\text{F}$; $L_i = 0 \text{ mH}$.

DATA circuit (terminal 6 and 7) , for connection to a passive intrinsically safe circuit:

in type of protection intrinsic safety Ex ia IIC or IIB, with the following maximum values:

$U_o = 6,5 \text{ V}$; $I_o = 13 \text{ mA}$; $P_o = 21 \text{ mW}$; $C_o = 24 \mu\text{F}$; $L_o = 100 \text{ mH}$.

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REQ circuit (terminal 7 and 8) , for connection to a passive intrinsically safe circuit:
in type of protection intrinsic safety Ex ia IIC or IIB, with the following maximum values:
 $U_o = 6,5 \text{ V}$; $I_o = 5 \text{ mA}$; $P_o = 8 \text{ mW}$; $C_o = 24 \text{ }\mu\text{F}$; $L_o = 100 \text{ mH}$.

Variation 1 - This variation introduced the following changes:

- i. Minor changes to the electronics.
- ii. The report is also to facilitate the transfer of certificates KIWA 20ATEX0022 from Kiwa Nederland B.V., Unit Kiwa ExVision, Wilmersdorf 50, 7327 AC Apeldoorn, The Netherlands to CSA Group.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
1	24 June 2020	200200950	The release of the prime certificate.
2	02 February 2022	R80093867B	The introduction of Variation 1.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

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