

# CERTIFICATE

## (1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 21ATEX0019 X** Issue Number: **2**

(4) Product: **Wireless Temperature Sensor, type WT22-Ex, Level Sensor, type RL22-Ex and Wireless Display, type WD22-Ex**

(5) Manufacturer: **Intermodal Telematics B.V.**

(6) Address: **Korte Huifakkerstraat 8, 4815 PS Breda, The Netherlands**

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

(8) DEKRA Certification B.V., Notified Body number 0344 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 test report number 226516500 Issue 0.

(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 subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the 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 2 G Ex ib IIC T4 Gb**  
**II 2 D Ex ib IIIC T135 °C Db**

Date of certification: 13 April 2022

DEKRA Certification B.V.

R. Schuller  
Certification Manager

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 21ATEX0019 X**

Issue No. 2

(15) **Description**

The temperature transmitter, type WT22-EX is a battery powered device for wireless transmission of temperature measurement data. It includes a display.

There are two M8 connectors each for connecting one external PT1000 sensing device with a maximum cable length of 50 meter.

The level sensor, type RL22-Ex is a battery powered device for wireless transmission of level measurement data. It includes a display.

There is one M8 connector with RS485 interface for connecting the external measurement probe with a maximum cable length of 10 meter. The probe is normally the RLP20-Ex (subject to another certificate).

The wireless display, type WD22-EX is a battery powered device for display of measurement data that is communicated by nearby transmitter(s).

All module types are for fixed installation only.

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

The enclosure provides an IP54 protection according EN IEC 60079-0.

The supplied M8 connector cap needs to be mounted to seal the connector when not used.

The modules shall not be opened in the hazardous area. There are no user-replaceable parts inside the modules.

**Electrical data**

All models:

Powered by non user-replaceable battery.

WT22-Ex:

Output circuit (For both connectors terminals 1 to 4):

(Terminal 1 is PT1000 positive connection / Force/Sense + ;

Terminal 2 pin is not present ;

Terminal 3 is PT1000 negative connection / Sense - ;

Terminal 4 is PT1000 negative connection / Force- )

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

$U_o = 5,0 \text{ V}$ ;  $I_o = 180 \text{ mA}$ ;  $P_o = 300 \text{ mW}$ ;  $C_o = 200 \text{ nF}$ ;  $L_o = 100 \text{ }\mu\text{H}$ .

RL22-Ex:

Output circuit (terminals 1 to 4):

(Terminal 1 is Supply +; Terminal 2 is RS485A; Terminal 3 is Supply -; Terminal 4 is RS485B)

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

$U_o = 5,0 \text{ V}$ ;  $I_o = 180 \text{ mA}$ ;  $P_o = 300 \text{ mW}$ ;  $C_o = 10 \text{ }\mu\text{F}$ ;  $L_o = 10 \text{ }\mu\text{H}$ .



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 21ATEX0019 X**

Issue No. 2

**Installation instructions**

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

226516500 Issue 0.

(17) **Specific conditions of use**

Electrostatic discharges and propagating brush discharges on the non-metallic front of the enclosure shall be avoided. Clean only using a wet cloth.

The equipment shall be installed in such a way that the risk of mechanical danger is negligible at the backside of the enclosure.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 226516500 Issue 0.

(20) **Certificate history**

Issue 0 -	225368500	initial certificate
Issue 1 -	226234300	product name changes and minor constructional change
Issue 2 -	226516500	minor constructional changes