

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 18ATEX0107 X** Issue Number: 2

(4) Product: **Pressure sensor, types PS18-Ex and PS20-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 223171100, Issue 2.

(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 IIB T4 Gb (PS18-Ex)
II 2 G Ex ib IIC T4 Gb (PS20-Ex)

Date of certification: 12 October 2020

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0107 X**

Issue No. 2

(15) **Description**

The Pressure sensor, types PS18-Ex and PS20-Ex is a battery powered device for wireless transmission of pressure measurement data, only for fixed installation.

Ambient temperature range: -40 °C to +55 °C.

Electrical data

Powered by non user-replaceable battery.

Pressure input circuit (M12 connector):

PS18-Ex:

in type of protection intrinsic safety Ex ib IIB, with the following maximum values:

$U_o = 15,6 \text{ V}$; $I_o = 40 \text{ mA}$; $P_o = 624 \text{ mW}$; $C_o = 2,6 \text{ }\mu\text{F}$; $L_o = 500 \text{ }\mu\text{H}$.

PS20-Ex:

in type of protection intrinsic safety Ex ib IIC, with the following maximum values:

$U_o = 15,6 \text{ V}$; $I_o = 40 \text{ mA}$; $P_o = 624 \text{ mW}$; $C_o = 0,25 \text{ }\mu\text{F}$; $L_o = 500 \text{ }\mu\text{H}$.

Installation instructions

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

(16) **Report Number**

No. 223171100, Issue 2.

(17) **Specific conditions of use**

Electrostatic charges on the non-metallic enclosure shall be avoided.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 223171100, Issue 2.

(20) **Certificate history**

Issue 0 -	223171100	initial certificate
Issue 1 -	223649700	minor constructural change, address change, change in ambient temperature range.
Issue 2 -	224961300	addition of type PS20-Ex and evaluation to newer standard edition.