

# CERTIFICATE

## EU-Type Examination

- (1) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**
- (2) EU-Type Examination Certificate Number: **DEKRA 20ATEX0017 X** Issue Number: **0**
- (3) Product: **Radio Transmitters models Toran'o, Pulse Sens'o and Presso 0-5V**
- (4) Manufacturer: **nke Watteco**
- (5) Address: **Rue Gutenberg – 56700 Hennebont - France**
- (6) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (7) 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 223926800 issue 0.
- (8) 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.
- (9) 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.
- (10) 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.
- (11) The marking of the product shall include the following:



**II 2 G Ex ib IIB, IIC T4 Gb (all models)**  
**II 2 D Ex ib IIIC T135 °C Db (Pulse Sens'o and Presso 0-5V)**

Date of certification: 4 August 2020

DEKRA Certification B.V.

R. Schuller  
Certification Manager



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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 20ATEX0017 X**

Issue No. **0**

(15) **Description**

LoRaWAN sensor models Toran'o / Pulse Sens'o / Press'o 0-5V are wireless devices converting any gauge type of 0-5V, 4-20mA analog signals into a radio signal. Radio sensors models Toran'o / Pulse Sens'o / Press'o 0-5V can be connected to any fluid level sensor (water, oil, gaz...) in order to transmit data.

The device is available in 4 versions:

- Pulse Sens'o provides three digital pulse inputs on one connector
- Pulse Sens'o provides three digital pulse inputs on three connectors
- Press'o 0-5V provides two 0-5V inputs on one connector
- Toran'o provides three digital pulse inputs, two 0-5V inputs and one 4-20mA inputs on three different connectors.

Ambient temperature range: -20 °C to +50 °C.

**Electrical data**

Battery powered by SAFT battery type LS17500.

For Entity parameters, see Annex 1 to DEKRA 20ATEX0017 X.

**Installation instructions**

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

(16) **Report Number**

No. 223926800 issue 0.

(17) **Specific conditions of use**

Precautions shall be taken to minimize the risk from electrostatic discharge of non-metallic parts of the equipment.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 223926800 issue 0.

(20) **Certificate history**

Issue 0 - 223926800 initial certificate