

(1) **EU - Type Examination Certificate**

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**  
(3) EU - Type Examination Certificate Number

**EPS 21 ATEX 1 163 X**

**Revision 2**

- (4) Equipment: Accelerometer 8511N-EX / 8531N-EX and 8911N-EX / 8931N-EX  
(5) Manufacturer: Measurement Specialties (China), Ltd.  
(6) Address: No. 26 Langshan Road  
Shenzhen High-Tech Park (North)  
Nanshan District  
Shenzhen 518057  
China

- (7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.  
(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 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 and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 21TH0398.  
(9) Compliance with the essential health and safety requirements has been assured by compliance with:

**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 special conditions for safe use specified in the annex to this certificate.  
(11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.  
(12) The marking of the equipment shall include the following:

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Certification department of explosion protection

Tuerkheim, 2022-12-08

Ulrich Feike

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

## Annex

(14) **EU - Type Examination Certificate EPS 21 ATEX 1 163 X**

Revision 2

(15) Description of equipment:

The TE wireless accelerometer combines a sensor, data collector, digital signal processor and radio into one compact battery-operated device that measures both vibration and temperature data using Bluetooth communication protocol or Long Range WAN.

Electrical data:

Battery-powered (SAFT LS 17330), Li-SOCl<sub>2</sub>, 3.6 V, 2.1 Ah  
The battery will not be shipped together with the sensor for all models (8511N-EX/8531N-EX/8911N-EX/8931N-EX).

Interface:

Radio frequency:

Type 8511N-EX / 8531N-EX: Bluetooth (2.4 - 2.5 GHz)  $P_{RF\_max} < 11mW$   
Type 8911N-EX / 8931N-EX: LoRa WAN Class-A (868.3 MHz + 915 MHz)  $P_{RF\_max} < 15mW$

(16) Reference number: 21TH0398

(17) Special conditions for safe use:

It is only allowed to replace the battery in non-hazardous areas.

The sensor may only be operated when it is sufficiently and constantly grounded.

The device must be protected from high electrostatic charge processes.

Maximum ambient temperature range:  $-40\text{ °C} \leq T_{amb} \leq 60\text{ °C}$

(18) Essential health and safety requirements:

Met by compliance with standards.

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Tuerkheim, 2022-12-08

