



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX EPS 21.0053X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 Issue 1 (2022-05-06)
Date of Issue: 2022-12-08 Issue 0 (2021-10-12)
Applicant: **Measurement Specialties (China), Ltd.**
No. 26 Langshan Road
Shenzhen High-Tech Park (North)
Nanshan District
Shenzhen 518057
China
Equipment: **Accelerometer 8511N-EX / 8531N-Ex and 8911N-EX / 8931N-EX**
Optional accessory:
Type of Protection: **Intrinsic safety "ia"**
Marking: **Ex ia IIC T4 Ga**

Approved for issue on behalf of the IECEx
Certification Body:

Position:

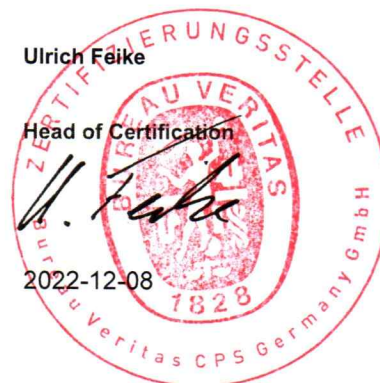
Signature:
(for printed version)

Date:
(for printed version)

Ulrich Feike

Head of Certification

2022-12-08



1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Issue No: 2

Manufacturer: **Measurement Specialties (China), Ltd.**
No. 26 Langshan Road
Shenzhen High-Tech Park (North)
Nanshan District
Shenzhen 518057
China

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/EPS/ExTR21.0058/02

Quality Assessment Report:

NO/DNV/QAR21.0019/01



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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-SOCl₂, 3.6 V, 2.1 Ah

The battery will not be shipped together with the sensors 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)	$P_{RF_max} < 15mW$

SPECIFIC CONDITIONS OF USE: YES as shown below:

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: $-40\text{ }^{\circ}\text{C} \leq T_{amb} \leq 60\text{ }^{\circ}\text{C}$



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Change of model numbers.