



Certificate of Compliance

Certificate: 80098072

Master Contract: 302370

Project: 80128207

Date Issued: 2023-01-09

Issued To: Measurement Specialties (China), Ltd.
No.26, Langshan Road, Shenzhen High-Tech(North),
Nanshan District, Shenzhen,
Guangdong 518107
China

Attention: Ruby Li

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: *Hongliang Cui*
Hongliang Cui

PRODUCTS

CLASS - C225804 - PROCESS CONTROL EQUIPMENT Intrinsically Safe Entity - For Hazardous Locations
CLASS - C225884 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations
Certified to US Standards

Class I, Division 1, Groups A, B, C and D T4

Ex ia IIC T4 Ga

Class I, Zone 0, AEx ia IIC T4 Ga

Accelerometer 8511N-EX / 8531N-EX and 8911N-EX / 8931N-EX, the battery will not be shipped together with the sensors for all models. $-40^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$. Intrinsically safe when powered by a Li-SOCl₂ battery (SAFT LS 17330, 3.6V 2.1Ah).

Radio frequency:

Type 8511N-EX / 8531N-EX: Bluetooth (2.4 - 2.5 GHz), $P_{\text{RF_max}} < 11\text{mW}$

Type 8911N-EX / 8931N-EX : LoRa WAN Class-A (868.3 MHz + 915 MHz), $P_{\text{RF_max}} < 15\text{mW}$

Conditions of Acceptability:

1. It is only allowed to replace the battery in non-hazardous areas.
2. The sensor may only be operated when it is sufficiently and constantly grounded.
3. The device must be protected from high electrostatic charge processes.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 60079-0:19	Explosive atmospheres - Part 0: Equipment - General requirements
CAN/CSA C22.2 No. 60079-11:14	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i”
CAN/CSA C22.2 No. 61010-1-12 + Update No 1:2015 + Update No 2:2016 + AMD1:2018	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
ANSI/UL 60079-0-2020	Explosive atmospheres - Part 0: Equipment - General Requirements
ANSI/UL 60079-11-2018	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i”
ANSI/UL 913-2019	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, III, Division 1, Hazardous (Classified) Locations
UL 61010-1, 3 rd Edition (2012) + AMD1: 2018	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements

Notes:

Products certified under Class C225804, C225884 have been certified under CSA’s ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

Certificate: 80098072

Master Contract: 302370

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80128207	2023-01-09	Update report 80098072 to add new types and change model numbers.
80098072	2022-01-12	Original cCSAus Certification of Accelerometer 8511/8531