

EX CERTIFICATE – cCSAus

vibro-meter®

**cCSAus 1636188
for
CA134 piezoelectric accelerometer**



Note: Although the Ex certificate may be included in more than one language, the liability of the notified body applies only on the text of the original copy of the certificate that it published.

Document reference cCSAus 1636188
Edition 6 – March 2025

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Certificate: 1636188
Project: 80236656
Master Contract: 175074
Date Issued: 2025-02-21

Ratings:
V_{max} (U_i) ≤ 28 Vdc, I_{max} (I_i) ≤ 100 mA, (for linear source) 25 mA (for non linear source), P_i ≤ 0.7W
C_i = 1.2 nF, capacitance of the integral cable is 0.250 nF/m.

L_i = 0 mH

Temperature code:

Ambient temperatures are as follows:

* -20°C / + 500°C for sensor and cable

* -200°C / +500°C for sensor with high temperature VM connector

* -65°C / + 200°C for connector Type M83723/89Y 1020 or equivalent

* -65°C / + 150°C for LEMO connector Type 0 or equivalent

The relation between maximum ambient temperature and temperature class is as follows for all devices, taking into account the above mentioned temperature ranges:

Maximum ambient temperature: T_a ≤ -440°C for T1

T_a ≤ -200°C for T2

T_a ≤ -195°C for T3

T_a ≤ -130°C for T4

T_a ≤ -95°C for T5

T_a ≤ -80°C for T6

The maximum temperature, for ambient higher than 440°C is the process temperature plus 10K.

Condition of Acceptability:

The material shall only be connected to a certified [a] associated apparatus and this combination, taking into account the length of joining cable, and shall not compromise the intrinsic safety.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements

CAN/CSA-C22.2 No. 60079-0-19 (R2024) - Explosive atmospheres — Part 0: Equipment — General requirements

CAN/CSA-C22.2 No. 60079-11:14 (R2023) - Explosive atmospheres — Part 11: Equipment protection by intrinsic safety "i"

UL 61010C-1 - Process Control Equipment

ANSI/UL 60079-0-2020 Seventh Edition - Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements

ANSI/UL 60079-11 2013 - Sixth Edition - Including revisions through January 25, 2023 - UL Standard for Safety Explosive Atmospheres - Part 11: Equipment Protection by Intrinsic Safety "i"

Markings

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Certificate of Compliance

Certificate: 1636188
Project: 80236656
Master Contract: 175074
Date Issued: 2025-02-21

Issued to:
Meggit SA
Rte de Moncor 4
Villars-sur-Glane, Fribourg 1752
Switzerland

Attention: Alain Pauli

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: Jerry Thai
Jerry Thai

PRODUCTS

Class 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entry - For Hazardous Locations
Class 2258 84 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entry - For Hazardous Locations - Certified to US Standards

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

Ex ia IIC T⁺ Ga

Class I, Zone 0, AEx ia IIC T⁺ Ga

Acceleration transducer

Model(s)
Vibro-meter Acceleration transducer Type 144-134-000-YYY

Intrinsically safe with entry parameters when connected per drawing PZ6920

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Notes:

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

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The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The following markings are engraved on the enclosure of the sensor.

- Manufacturer's name: "Meggit SA", or CSA Master Contract Number "175074", adjacent to the CSA Mark in lieu of manufacturer's name, or trademark "vibro-metex".
- Model designation: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above, or "144-134-000-YYY".
- Manufacturing date, or serial number, traceable to year and month of manufacture.
- The CSA Mark, as shown on the Certificate of Conformity.
- The designation "CSA 25CA1636188X".
- Hazardous Location designation: As specified in the PRODUCTS section, above. The word "Class" may be abbreviated "CL"; the word "Division" may be abbreviated "DIV"; and the word "Groups" may be abbreviated "GRP" or "Gp".
- Method of Protection markings (Ex - markings): As specified in the PRODUCTS section, above. The word "Class" may be abbreviated "CL"; the word "Zone" may be abbreviated "ZN".
- Temperature code: As specified in the PRODUCTS section, above.
- The manufacturing location shall be identified if the equipment can be produced in more than one facility.
- The following words, or suitable equivalent, in English and French:
 - For Canada: "INTRINSICALLY SAFE" or "IS," or "I.S.," or the symbol "A" or "A SÉCURITÉ INTRINSÈQUE" or "SI" or "S.I" or the symbol "Ex ia".
 - "Install per drawing PZ 6920" and "installer selon le dessin PZ 6920"
 - Where Um ≥ 250V: The words "Maximum non-hazardous voltage not to exceed 28V"

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Supplement to Certificate of Compliance

Certificate: 1636188

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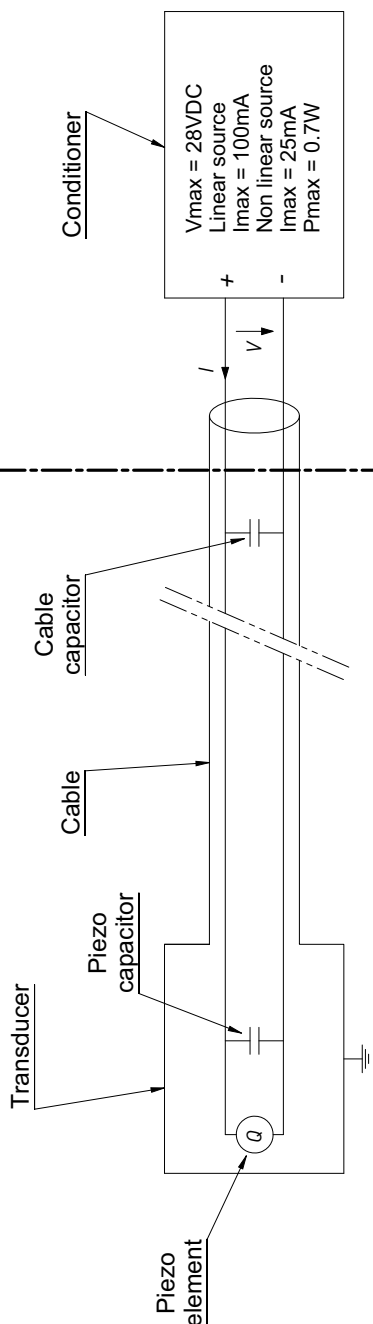
The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80236656	2025-02-21	Update to Report 1636188 to update C22.2 No. 157-92 to C22.2 No. 60079-11:14 and UL 913 6th Edition to ANSI/UL 60079-11-2023 Sixth Edition and additional assessment to C22.2 No. 60079-0:19 and ANSI/UL 60079-0-2020.
70002267	2014-02-28	eCSAus report update for modification of Accelerometer 144-134-000-XXX.
2421976	2011-05-05	Update Report 1636188 to include the change of legal entity name.
1636188	2005-03-22	Original Certification.

Standard area

Hazardous area



Transducer CA 134

Transducer $C_i < 1\text{ nF}$
Transducer $L_i = 0$
Transducer $R_i = 0$

Cable Ci = 250pF/m x cable length (pole to pole)
Cable Li = 0
Cable Ri = 0

WARNING:

- THIS PRODUCT MAY NEITHER BE MODIFIED OR REPAIRED

ATTENTION

ATTENTION
- CE PRODUIT NE PEUT PAS ETRE MODIFIE OU REPARÉ

Environmental conditions

- | | |
|---------------------------------------|--|
| Pollution degree | : 2 |
| Installation category | : CAT I |
| Altitude | : 2000 m Max |
| Humidity | : 80% Max relative humidity |
| Electrical supply voltage fluctuation | : No supply voltage (charge generator) |
| Outdoor use statement | : Outdoor use |
| Temperature operational sensor | : -200°C to +500°C |
| cable | : -200°C to +500°C |
| connectors | : -200°C to +500°C |
| | : -65°C to +200°C |
| | : -65°C to +150°C |

-Warning: This product may neither be modified or repaired. Coordinates to obtain Technical assistance provided.

Coordinates to obtain technical assistance provided.
Meggett SA, P.O. Box 1616, Route de Moncor 4, 1701 Fribourg, Switzerland, phone +41 26 407 11 11
The product is intended to be used with certified signal conditioner and safety barrier.

- The product is intended to be used with certified signal conditioner and safety barrier.
- To ensure an installation conform with an explosive environment, it is crucial to respect the criteria mentioned into the corresponding Ex certificates.

Notes

1. Ex ia is defined as intrinsically safe.
2. Install associated apparatus in accordance with manufacturers instructions.

NO MODIFICATION ALLOWED
WITHOUT PRIOR AUTHORISATION
OF NOTIFIED BODY

[illegible]