



Certificate of Compliance

Certificate:	1550831	Master Contract:	175074
Project:	80282494	Date Issued:	2026-03-16
Issued to:	Meggitt SA Rte de Moncor 4 Villars-sur-Glane, Fribourg 1752 Switzerland Attention: Alain Pauli	Issued by:	Sorin Tat Sorin Tat

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.



PRODUCTS

Class 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

Class I, Division 1, Groups A, B, C and D
Ex ia IIC T* Ga

Vibro-meter Accelerometer CA30* Type 144-30a-000-bcd
Intrinsically safe with entity parameters when connected per drawing PZ 6720

Entity Parameters for the sensor:

$V_{max}(U_i)=28\text{ V}$, $I_{max}(I_i)=100\text{ mA}$, when used with linear source $V_{oc} \leq 28\text{ V}$, $I_{sc} \leq 100\text{ mA}$, $P_o \leq 0,7\text{ W}$
 $P_{max}(P_i)=0,7\text{ W}$, $I_{max}(I_i)=25\text{ mA}$, when used with non linear source $V_{oc} \leq 28\text{ V}$, $I_{sc} \leq 25\text{ mA}$, $P_o \leq 0,7\text{ W}$
 $C_i=2\text{ nF}$, $L_i=0\text{ mH}$



Certificate: 1550831

Master Contract: 175074

Project: 80282494

Date Issued: 2026-03-16

Temperature code :

Ambient temperatures are as follows:

- * -54°C/ / + 500°C for sensor and cable
- * -54°C/.../+500°C for sensor with high temperature VM connector connectors:
- * -65°C/ / + 150°C for LEMO connector Type 0 or equivalent
- * -65°C/ / + 200°C for connector Type M83723/89Y1020 or equivalent
- * -54°C/ / + 260°C for standard temperature VM connector

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: Ta<+440 °C for T1
Ta<+290 °C for T2
Ta<+190 °C for T3
Ta<+125 °C for T4
Ta<+90 °C for T5
Ta<+75 °C for T6

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

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

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

Class I, Zone 0, AEx ia IIC T* Ga

Vibro-meter Accelerometer CA30* Type 144-30a-000-bcd

Intrinsically safe with entity parameters when connected per drawing PZ 6720

Entity Parameters for the sensor:

V_{max}(U_i)=28 V, I_{max}(I_i)=100 mA, when used with linear source V_{oc} ≤ 28 V, I_{sc} ≤ 100 mA, P_o ≤ 0,7W
P_{max}(P_i)=0,7W, I_{max}(I_i)=25mA, when used with non linear source V_{oc} ≤ 28 V, I_{sc} ≤ 25mA, P_o ≤ 0,7W
C_i=2nF, L_i=0 mH

Temperature code :

Ambient temperatures are as follows:

- * -54°C/ / + 500°C for sensor and cable
- * -54°C/.../+500°C for sensor with high temperature VM connector connectors:
- * -65°C/ / + 150°C for LEMO connector Type 0 or equivalent
- * -65°C/ / + 200°C for connector Type M83723/89Y1020 or equivalent
- * -54°C/ / + 260°C for standard temperature VM connector

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



Certificate: 1550831

Master Contract: 175074

Project: 80282494

Date Issued: 2026-03-16

Maximum ambient temperature: Ta<+440 °C for T1
Ta<+290 °C for T2
Ta<+190 °C for T3
Ta<+125 °C for T4
Ta<+90 °C for T5
Ta<+75 °C for T6

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

APPLICABLE REQUIREMENTS

Standards Used	Description
CSA C22.2 1010.1-92	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements - General Instruction No 1
UL 61010C-1	Process Control Equipment
ANSI/UL 60079-0-2020 Seventh Edition	Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
CAN/CSA C22.2 No. 60079-0:19	Explosive atmospheres - Part 0: Equipment - General requirements
CAN/CSA-C22.2 No. 60079-11:14 - Second Edition	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
ANSI/UL 60079-11:2013 - Sixth Edition - Including revisions through January 25, 2023	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "i"

Markings

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.



Certificate: 1550831

Master Contract: 175074

Project: 80282494

Date Issued: 2026-03-16

-
- Manufacturer's name: "Meggitt SA", or CSA Master Contract Number "175074", adjacent to the CSA Mark in lieu of manufacturer's name, or trademark "Vibro-Meter"
 - 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 "144-30X-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 25CA1550831X"
 - 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 "Ex ia" and "À SÉCURITÉ INTRINSÈQUE" or "SI" or "S.I" or the symbol "Ex ia".
 - "Install per drawing PZ 6720"
 - Where $U_m \neq 250V$: The words "Maximum non-hazardous voltage not to exceed 28V."

Conditions Of Acceptability

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



Certificate: 1550831

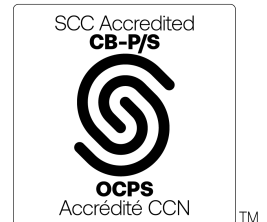
Project: 80282494

Master Contract: 175074

Date Issued: 2026-03-16

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





Supplement to Certificate of Compliance

Certificate: 1550831

Master Contract: 175074

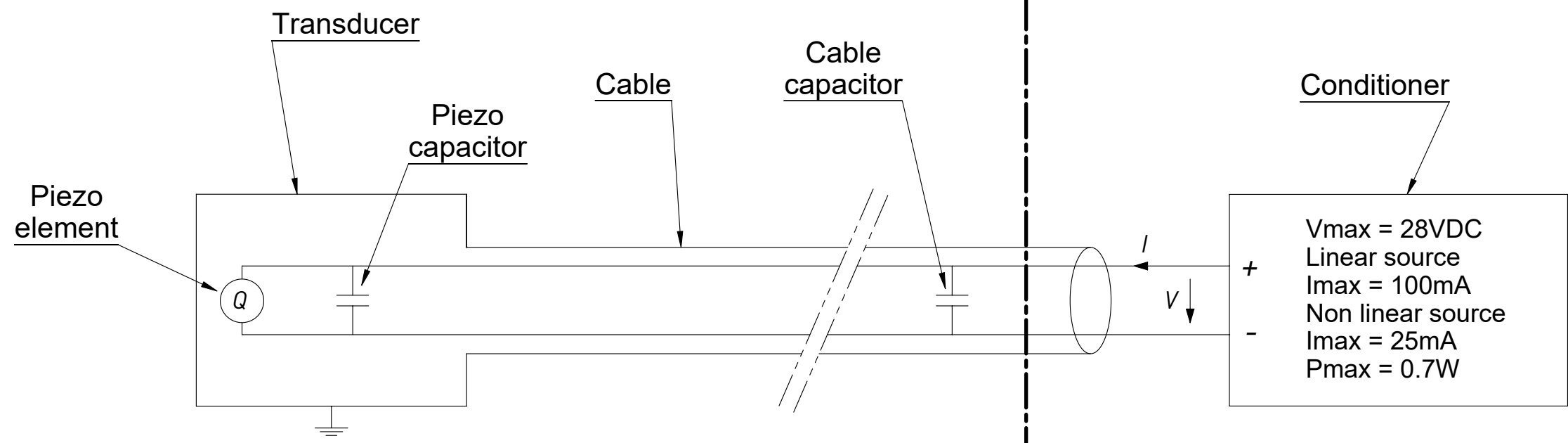
*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80282494	2026-03-16	Update to Report 1550831 (last project 80236655) for Vibro-meter Accelerometer CA30* Type 144-30 Series for evaluation of change of enclosure shape. This project is based on external IECEx certificate DEK 23.0049X.
80236655	2025-02-21	Update to Report 1550831 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.
80070101	2021-04-06	Update to cCSAus report 1550831 for intrinsically safe Accelerometer Type 144-30X-000-YYY for removal of entity parameters from marking label drawing. This update is based on FIR on September 15, 2020 at Factory ID
2421981	2011-05-05	Update Report 1550831 to include the change of legal entity name
1550831	2004-09-23	Original certification of Accelerometer Type 144-30X-000-YYY for Class I Division 1 Gr.A,B,C,D.

Hazardous area

Standard area

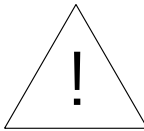


Transducer CA 30x

Transducer $C_i < 2\text{nF}$
Transducer $L_i = 0$
Transducer $R_i = 0$

Cable $C_i = 200\text{pF/m} \times \text{cable length (pole to pole)}$
Cable $L_i = 0$
Cable $R_i = 0$

$C_a \geq C_i + C_{\text{cable}}$
 $L_a \geq L_i + L_{\text{cable}}$



WARNING:
- THIS PRODUCT MAY NEITHER BE MODIFIED OR REPAIRED

ATTENTION
- CE PRODUIT NE PEUT PAS ETRE MODIFIE OU REPARE

Environmental conditions

- Pollution degree : 4
- 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 : -54°C to +500°C
 - cable : -54°C to +500°C
 - connectors : -65°C to +150°C
 - : -65°C to +200°C
 - : -54°C to +260°C

- Warning: This product may neither be modified or repaired.
- Coordinates to obtain Technical assistance provided.
Meggit SA, Route de Moncor 4, 1754 Villars-sur-Glâne, Switzerland, phone +41 26 407 11 11
- 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 AUTORISATION
OF NOTIFIED BODY

2	08.08.25	---	A.Pauli	R.Madureira	Changed Pollution degree 2 to 4, redrawn in Solidworks																																
1	30.03.21	---	cpel	P.Kornatko	Updated conditioner box																																
Rev.	Date	Change N°	Drawn	Appr.	Description																																
INFORMATION CONTAINED IN THIS DOCUMENT MAY BE SUBJECT TO EXPORT CONTROL REGULATIONS OF THE EUROPEAN UNION, USA OR OTHER COUNTRIES. EACH RECIPIENT OF THIS DOCUMENT IS RESPONSIBLE FOR ENSURING THAT TRANSFER OR USE OF ANY INFORMATION CONTAINED IN THIS DOCUMENT COMPLIES WITH ALL RELEVANT EXPORT CONTROL REGULATIONS. ECN NO. N/A THIS DRAWING AND/OR ITS DESIGN IS PROPRIETARY AND THE PROPERTY OF MEGGITT SA. THIS DRAWING AND/OR ITS DESIGN IS PROVIDED TO YOU SUBJECT TO THE CONDITION THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF, DIRECTLY OR INDIRECTLY. IT SHALL NOT BE USED TO FURNISH ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS OR APPARATUS, OR PARTS THEREFORE, EXCEPT WHERE OTHERWISE EXPRESSLY PROVIDED FOR BY CONTRACT WITH MEGGITT SA. © MEGGITT SA 2004-2025. ALL RIGHTS RESERVED. NO PART OF THIS PUBLICATION MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC, MECHANICAL, PHOTOCOPIED OR IN ANY OTHER MANNER WITHOUT THE PRIOR WRITTEN PERMISSION OF MEGGITT SA.																																					
MFR S3960		MSS-CAD 		MEGGITT Meggitt SA Rte de Moncor 4, CH-1752 Villars-sur-Glâne, Switzerland																																	
Scale 1:1		Format A3																																			
Material:				Repl.by:																																	
Linear Tolerances [mm] <table><tr><td>> 0,5 ... 3</td><td>> 3 ... 6</td><td>> 6 ... 30</td><td>> 30 ... 120</td><td>> 120 ... 400</td><td>> 400 ... 1000</td><td>> 1000 ... 2000</td><td>> 2000 ... 4000</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>				> 0,5 ... 3	> 3 ... 6	> 6 ... 30	> 30 ... 120	> 120 ... 400	> 400 ... 1000	> 1000 ... 2000	> 2000 ... 4000	-	-	-	-	-	-	-	-	Radius / Chamfers [mm] <table><tr><td>> 0,5 ... 3</td><td>> 3 ... 6</td><td>> 6</td></tr><tr><td>-</td><td>-</td><td>-</td></tr></table>		> 0,5 ... 3	> 3 ... 6	> 6	-	-	-	Tol. on angle [°]  <table><tr><td>> 10 ... 10</td><td>> 50 ... 50</td><td>> 120 ... 120</td><td>> 120 ... 400</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>		> 10 ... 10	> 50 ... 50	> 120 ... 120	> 120 ... 400	-	-	-	-
> 0,5 ... 3	> 3 ... 6	> 6 ... 30	> 30 ... 120	> 120 ... 400	> 400 ... 1000	> 1000 ... 2000	> 2000 ... 4000																														
-	-	-	-	-	-	-	-																														
> 0,5 ... 3	> 3 ... 6	> 6																																			
-	-	-																																			
> 10 ... 10	> 50 ... 50	> 120 ... 120	> 120 ... 400																																		
-	-	-	-																																		
Vibration transducer 144-30x-000-XXX				Repl.for:																																	
Wiring diagram (cCSAus)				DWG.N°																																	
				PZ 6720																																	