



Certificate of Compliance

Certificate: 70004793

Master Contract: 259620

Project: 70004793


Date Issued: 2015-02-24

Issued to: Sensy SA
Z.I Jumet
Allee Centrale
Charleroi, Hainaut 6040
Belgium
Attention: M. Puigdellivol

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:


Raymond Papiiah

PRODUCTS

CLASS 2258-04 -PROCESS CONTROL EQUIPMENT – Intrinsicly Safe, Entity - For Hazardous Locations

Ex ia IIC T6 Ga
Ex ia IIIC T80°C Da
Class I, Division 1, Groups A, B, C and D; Class II Division 1, Groups E, F, G; Class III

CLASS 2258-84 -PROCESS CONTROL EQUIPMENT – Intrinsicly Safe, Entity -For Hazardous Locations – Certified to US Standards

AEx ia IIC T6 Ga
AEx ia IIIC T80°C Da
Class I, Division 1, Groups A, B, C and D; Class II Division 1, Groups E, F, G; Class III



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Type 5000,5100, 5105, 5300, 5600,5560, 2600, 2960 Shear Beam Force Transducers, $-40^{\circ}\text{C} \geq T_a \geq +60^{\circ}\text{C}$, intrinsically safe when installed with the with following options and entity parameters:

Option	OPTION 1	OPTION 2	OPTION 3	OPTION 4
BODY	CE-5000-XXXXXXXXXXXXXX CE-5300-XXXXXXXXXXXXXX CE-5600-XXXXXXXXXXXXXX CE-5560-XXXXXXXXXXXXXX CE-2600-XXXXXXXXXXXXXX CE-2960-XXXXXXXXXXXXXX CE-5100-XXXXXXXXXXXXXX CE-5105-XXXXXXXXXXXXXX	CE-5000-XXXXXXXXXXXXXX CE-5300-XXXXXXXXXXXXXX CE-5600-XXXXXXXXXXXXXX CE-5560-XXXXXXXXXXXXXX CE-2600-XXXXXXXXXXXXXX CE-2960-XXXXXXXXXXXXXX CE-5100-XXXXXXXXXXXXXX CE-5105-XXXXXXXXXXXXXX	CE-5000-XXXXXXXXXXXXXX CE-5300-XXXXXXXXXXXXXX CE-5600-XXXXXXXXXXXXXX CE-5560-XXXXXXXXXXXXXX CE-2600-XXXXXXXXXXXXXX CE-2960-XXXXXXXXXXXXXX	CE-5000-XXXXXXXXXXXXXX CE-5300-XXXXXXXXXXXXXX CE-5600-XXXXXXXXXXXXXX CE-5560-XXXXXXXXXXXXXX CE-2600-XXXXXXXXXXXXXX CE-2960-XXXXXXXXXXXXXX
STRAIN GAUGES	Transducer-class strain gauges (no resistance limitation > 350Ω)	Transducer-class strain gauges: * Resistance > 1000Ω	Transducer-class strain gauges: * Resistance > 1000Ω	Transducer-class strain gauges: * Resistance > 1000Ω
CORRECTION CIRCUIT	CI-5000XXX CI-5510XXX CI-2712XXX	CI-5000XXX CI-5510XXX CI-2712XXX	CI-5000XXX CI-5510XXX CI-2712XXX	CI-5000XXX CI-5510XXX CI-2712XXX
AMPLIFIER	-	-	ICA5A amplifier	ICA5A amplifier
OUTPUT WIRE	Refer to conditions of applicability.	Refer to conditions of applicability.	Refer to conditions of applicability.	Refer to conditions of applicability.
Cable	4 wire cable (6 wires if Sense)	4 wire cable (6 wires if Sense)	2 wire cable	4 wire/2 wire cable
The total combination of U_i/V_{max} , I_i/I_{max} and P_i at Power supply and signal output lines) shall not exceed	$U_i/V_{max} = 28\text{V}$ $I_i/I_{max} = 160\text{ mA}$ $P_i = 1\text{ W}$ $C_i = 0$ $L_i = 0$	$U_i/V_{max} = 28\text{V}$ $I_i/I_{max} = 160\text{ mA}$ $P_i = 1\text{ W}$ $C_i = 0$ $L_i = 0$	$U_i/V_{max} = 28\text{V}$ $I_i/I_{max} = 160\text{ mA}$ $P_i = 1\text{ W}$ $C_i = 0$ $L_i = 15.92\text{ }\mu\text{H}$	$U_i/V_{max} = 28\text{V}$ $I_i/I_{max} = 160\text{ mA}$ $P_i = 1\text{ W}$ $C_i = 0$ $L_i = 15.92\text{ }\mu\text{H}$

Conditions of Applicability

i When the apparatus is used in dust atmospheres, connectors, plugs and cable glands used shall have an ingress protection of at least IP6X.

ii The equipment is not capable of withstanding the 500V dielectric strength requirement in accordance with clause 6.3.13 of ANSI/UL 60079-11:13, 6th Edition or CAN/CSA-C22.2 No. 60079-11:14 . This shall be taken into account when installing the equipment.

APPLICABLE REQUIREMENTS

Canadian Standards

CAN/CSA-C22.2 No. 0-10	General Requirements - Canadian Electrical Code Part II
C22.2 No.142-M1987	Process Control Equipment
CAN/CSA-C22.2 No. 60079-0:11 (IEC 60079-0:2007 5 th Ed., MOD)	Explosive atmospheres — Part 0: Equipment — General requirements
CAN/CSA-C22.2 No. 60079-11:14 (IEC 60079-11:2011 6 th Ed., MOD)	Explosive atmospheres — Part 11: Equipment protection by intrinsic safety “i”



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US Standards

ANSI/UL 508, 17 th Edition	Industrial Control Equipment
ANSI/UL Standard 913	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations
ANSI/UL 60079-0:13, 6 th Edition	Explosive Atmospheres - Part 0: Equipment - General Requirements
ANSI/UL 60079-11:13, 6 th Edition	Explosive Atmospheres – Part 11: Electrical Protection by Intrinsic Safety “i”

The certified equipment appearing in this classification is judged to comply with the applicable requirements of the NFPA 70 National Electrical Code (NEC) for use in hazardous locations.

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 marking is engraved onto the equipment and includes the following:

- CSA file number “259620”.
- Model designation.
- Entity parameters
- Date code/serial number traceable to month and year of manufacture.
- The CSA Mark with adjacent C_US qualifiers.

- Hazardous Location markings for Canada as follows:
Ex ia IIC T6 Ga
Ex ia IIIC T80°C Da
Class I, Division 1, Groups A, B, C and D; Class II Division 1, Groups E, F, G; Class III

- Hazardous Location markings for United States (US) as follows:
Class I, Zone 0, AEx ia IIC T6 Ga
Zone 20, AEx ia IIIC T80°C Da
Class I, Division 1, Groups A, B, C and D; Class II Division 1, Groups E, F, G; Class III

- Ambient temperature for Canada and United States (US): $40^{\circ}\text{C} \geq T_a \geq +60^{\circ}\text{C}$



Supplement to Certificate of Compliance

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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
70004793	2015-02-24	Original Certification.