Certificate of Compliance

Certificate: 80180740 **Master Contract:** 252935

Project: 80180740 **Date Issued:** May 02, 2024

Issued To: **Hohner Automation Limited**
Units 14-16
Whitegate Industrial Estate
Wrexham,
LL13 8UG
United Kingdom

Attention: Carl Collinge

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: Jonathan Pym

PRODUCTS

Hammer union pressure sensor HUS-ZXXXXXXX or HUT-ZXXXXXXX

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

Ex ia IIC T4 Ga
Class I, Div I, Groups A, B, C, D T4

Electrical Rating

i. The device is intended to be powered via a linear intrinsically safe barrier with the following entity parameters:

Table 1: Option A or B	
Parameter	Value
Ui	30V
li	100mA
Pi	0..75 W
Ci	31 nF
Li	12µH
C/m	200 pF/m
L/m	1 µH/m

OR

Table 2: Option C or D	
Parameter	Value
Ui	30V
li	100mA
Pi	0..75 W
Ci	31 nF
Li	12µH
C/m	100 pF/m
L/m	1 µH/m

ii. Temperature -40°C to +60°C

iii. When in service the device only uses the pins PWR+/SIG+ (A) and PWR-/SIG- (B). The programming pins are not used when the device is decommissioned.

Notes:

1. The above models are permanently connected, supplied from secondary non-hazardous live source, Pollution Degree 3 (Macro), Pollution Degree 2 (Micro), continuous operation.
2. The above models are supplied by an IS barrier with the following entity parameters: Ui = 30V; Ii = 100mA. This is considered equivalent to a Limited Energy Circuit per Clause 9.4 of 61010-1.

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

Class I, Zone 0, AEx ia IIC T4 Ga
Class I, Div I, Groups A, B, C, D T4

Electrical Rating

i. The device is intended to be powered via a linear intrinsically safe barrier with the following entity parameters:

Table 1: Option A or B	
Parameter	Value
Ui	30V
Ii	100mA
Pi	0..75 W
Ci	31 nF
Li	12µH
C/m	200 pF/m
L/m	1 µH/m

OR

Table 2: Option C or D	
Parameter	Value
Ui	30V
Ii	100mA
Pi	0..75 W
Ci	31 nF
Li	12µH
C/m	100 pF/m
L/m	2 µH/m

ii. Temperature -40°C to +60°C

iii. When in service the device only uses the pins PWR+/SIG+ (A) and PWR-/SIG- (B). The programming pins are not used when the device is decommissioned.

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Notes:

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APPLICABLE REQUIREMENTS

CAN/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"
UL 60079-0:2019, Seventh Edition	Explosive Atmospheres - Part 0: Equipment - General Requirements
UL 60079-11:2013, Sixth Edition	Explosive Atmospheres - Part 11: Equipment Protection by Intrinsic Safety "i"
CAN/CSA C22.2 No. 61010-1-12 + UPD1:2015, UPD2:2016, AMD 1-18 (R2022)	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements
ANSI/UL 61010-1-2018 Third Edition	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements

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 marking shall include the following:

- CSA Master Contract Number “252935”, adjacent to the CSA Mark in lieu of manufacturer’s name.
- 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.
- Manufacturing date in MMYY format, or serial number, traceable to year and month of manufacture.
- The CSA Mark, as shown on the Certificate of Conformity.
- The CSA Mark with or without the “C” and “US” indicators, as shown on then Certificate of Conformity.

- The designation “CSA 24CA80180740”
- 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):
- Temperature code: As specified in the PRODUCTS section, above.
- The manufacturing location is identified if the equipment can be produced in more than one facility.
- The following warnings must be marked in English and French:
    - Do not open when an explosive gas or dust atmosphere may be present.
    - To prevent ignition from flammable or combustible atmospheres disconnect power before servicing.
    - Explosion hazard substitution of components may impair intrinsic safety. Intrinsically Safe

Marking Method: The above markings are provided on an engraved/laser etched stainless steel/brass plate secured into its position by stainless steel pins or drive screws, or the markings are etched/engraved directly onto the enclosure. Refer to Ill. 20, Drawing HUX-CSA-LB-001-01 for nameplate details.

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