Certificate of Compliance

Certificate: 70176484 **Master Contract:** 200600

Project: 70176484 **Date Issued:** August 02, 2018

Issued to: **Endress + Hauser Wetzer GmbH Co. KG**
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GERMANY

Attention: **Mr. Reinhard Buchner**

The products listed below 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 US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only

C US

Issued by: Oong Lee

PRODUCTS

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

Ex ia [ia Ga] IIC T6…T4 Gb
IS Class I, Division 1, Groups A, B, C, D T6…T4
(Refer to note 1 for temperature class in relation to maximum ambient temperature)
Surge Arrestor, Type HAW562-8DA

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

Class I, Zone 1, AEx ia [ia Ga] IIC T6…T4 Gb
Class I, Division 1, Groups A, B, C, D T6…T4
(Refer to note 1 for temperature class in relation to maximum ambient temperature)
Surge Arrestor, Type HAW562-8DA

Intrinsic safety parameters:
Ui = 30 V, Ii = 500 mA, Pi = any W, Ci = 0 F, Li = 0 H

When connected to FISCO system:
Ui = 17.5 V, Ii = 380 mA, Pi = 5.32 W, Ci = 0 F, Li = 0 H

Note 1) Temperature class in relation to max. ambient temperature

Models	Mounting Conditions	T-class
All	–40 °C to +50 °C	T6
	–40 °C to +75 °C	T5
	–40 °C to +80 °C	T4

Notes (Ordloc):

1. The above model is Pollution Degree 3, Overvoltage Category I
2. Mode of operation: Continuous
3. Environmental Conditions: -40 °C to 80 °C, 2000 m max, 80% to temperatures up to 31 ºC decreasing linearly to 50% R.H. at 40 ºC

Conditions of Acceptability:

1. The dielectric strength of at least 500 V of the intrinsically safe circuit of type HAW562-8DA is limited only by the overvoltage protection. Terminals X3, X4, X3' and X4' are considered to be connected to earth. As a consequence, due to internal overvoltage protection components that are connected between the I.S. circuits and the earth connections, the equipment is not considered capable of passing a 500V r.m.s. a.c. dielectric strength test in accordance with Clause 6.3.13 of CAN/CSA-C22.2 No. 60079-11:14 / ANSI/UL 60079-11-2013 between its I.S. circuits and earth. This shall be taken into account the equipment installation.
2. The temperature classification varies, depending on maximum ambient temperature.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-10	General requirements — Canadian Electrical Code, Part II
CAN/CSA C22.2 No. 61010-1-12 (reaffirmed 2017)	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements – Third Edition
CAN/CSA-C22.2 No. 60079-0:15 (Reaffirmed 2018)	Explosive atmospheres – Part 0: Equipment – General requirements – Third Edition
CAN/CSA-C22.2 No. 60079-11:14	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i" – Second Edition
ANSI/UL-61010-1-2016	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements – Third Edition (April 29, 2016)
ANSI/UL 60079-0-2013 (R2017)	Explosive atmospheres – Part 0: Equipment – General requirements – Sixth Edition (October 20, 2017)
ANSI/UL 60079-11-2013	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "i" – Sixth Edition (March 28, 2014)

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 appear on the product:

- The CSA Mark with adjacent C_US qualifiers
- Manufacturer's name or CSA Master Contract Number adjacent to CSA mark.
- The hazardous location designation (both Zone and Div)
- Temperature class
- Intrinsic safety parameters*
- "FISCO surge protector"
- Maximum ambient temperature range
- Model Number
- Serial Number and Year of manufacture.
- CSA certificate number : CSA18CA70176484
- Control Drawing number 10000010453

Note) * - this information will be in the instruction manual