



Certificate of Compliance

Certificate: 70198983

Master Contract: 205557

Project: 80032925

Date Issued: 2020-04-27

Issued To: Endress+Hauser Conducta GmbH & Co. KG
Dieselstraße 24
Gerlingen, Baden-Württemberg, 70839
Germany

Attention: Dirk Löffler

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: Sorin Tat
Sorin Tat



PRODUCTS

CLASS - C225804 - PROCESS CONTROL EQUIPMENT Intrinsically Safe, Entity - For Hazardous Locations

CLASS - C225884 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - Certified to US Standards

Ex ia IIC T4/T6 Ga

Class I, Zone 0, AEx ia IIC T4/T6 Ga

Ex ia IIIC T85°C/T135°C Db

Zone 21, AEx ia IIIC T85°C/T135°C Db

Class I, Div.1 Group A, B, C and D; Class II, III Div.1, Groups E, F, and G;



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Two wire transmitter for process engineering, models:

- CM82 followed by suffixes, with Memosens functionality and Bluetooth LE
- CM72 followed by suffixes, with Memosens functionality (Bluetooth LE disabled)

with entity parameters: U_i (V_{max}) = 30Vdc, I_i (I_{max}) = 100 mA, P_i = 0.75 W, C_i = 7nF (including 15m cable), L_i = 20 μ H(including 15m cable); Intrinsically safe when installed per drawing No. 422474 Rev.A. Type 6/IP67/68 enclosure.

Inductive Memosens interface to measuring sensor (max. Output value):

P_o = 105mW

With the following Temperature Class based on the ambient temperature range:

For EPL Ga:

Temperature class T6: $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Temperature class T4: $-20^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$

For EPL Db:

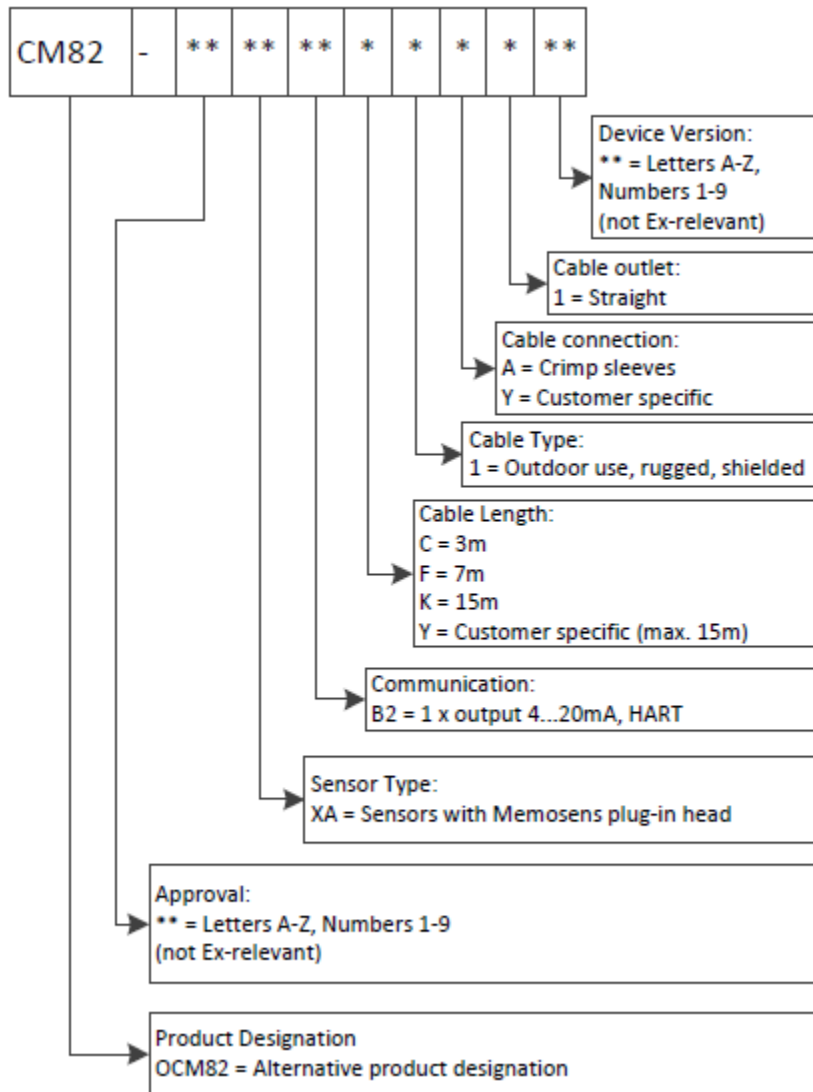
Temperature class T85°C: $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Temperature class T135°C: $-20^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$

Product designation:

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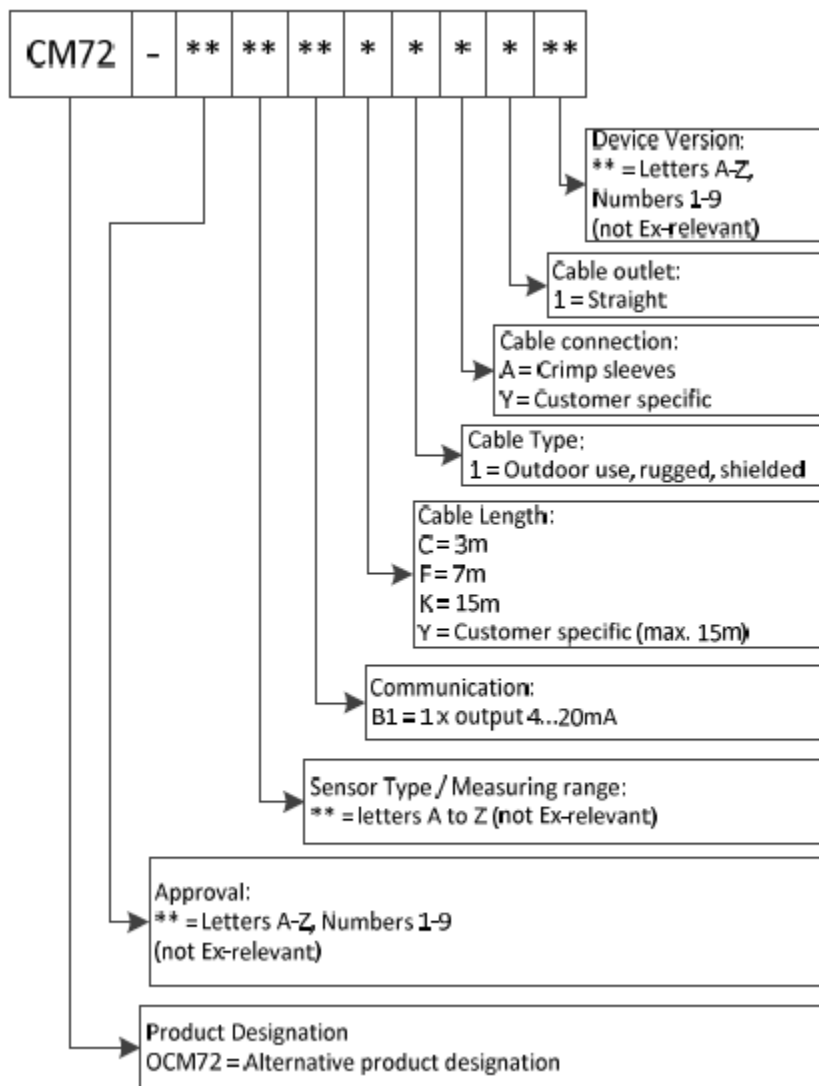
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Conditions of Acceptability:

-If installed in Zone 0, the measurement transmitters CM82 and CM72 and their connectors must be protected against electrostatic charges

APPLICABLE REQUIREMENTS

CAN/CSA Std C22.2 No. 0-10	General Requirements – Canadian Electrical Code, Part II
CAN/CSA C22.2 No. 60079-0-15	Explosive Atmospheres--Part 0: Equipment - General Requirements



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CAN/CSA C22.2 No. 60079-11-14	Explosive Atmospheres - Part 11: Equipment protection by Intrinsic Safety "i"
UL 60079-0:2013	Explosive Atmospheres - Part 0: Equipment - General Requirements
UL 60079-11:2013	Explosive Atmospheres - Part 1: Equipment protection by Intrinsic Safety "i"
CAN/CSA-C22.2 No. 61010-1-12	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
ANSI/UL Standard 61010-1	Electrical Equipment for Measurement, Control, and Laboratory Use; Part 1: General Requirements (Third Edition)

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 laser marked on a metal plate:

- CSA Monogram with C-US indicator
- Company name, trade name and/or CSA Master Contract No. 205557
- Model name / number
- Serial number or Date of manufacturing
- Entity Parameters (*Are stated in the control drawing*)
- Hazardous Location Designations with Temperature Code
- CSA certificate number (CSA18CA70198983)
- Reference to control drawing
- Ambient temperature range

The following warning is shown on the Control Drawing:

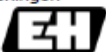






- Warning – Potential Electrostatic charging hazard – The measurement transmitters CM82 and CM72 and their connectors must be protected against electrostatic charges



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Sample of the markings are showed here below:

Made in Germany, Dieselstrasse 24, 70839 Gerlingen	
Endress+Hauser 	<i>Device Version</i> <i>HW Version</i>
Liquiline Compact CM82	
Order Code: CM82-xxxxxxxxxxx	
Ser-No.: xxxxxxxxxxxx	IdentNrXXXXXXX FW: SWversion
Pi = 750mW Ui = 30V  Ii = 100mA	Po = 105mW IP67/68 Type 6
Tamb: -20°C<Ta<+55°C(T6)/+80°C(T4)	
 G US	Cl. I/II/III, Div 1, GP A-D/E-G, T6/T4 Cl. I, Z0, AEx/Ex ia IIC, T6/T4 Ga Cl. I, Z21, AEx/Ex ia IIIC T85°C/T135°C Db CSA18CA70198983 Install per Ctrl. Drw. 422474
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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
80032925	2020-04-27	Update report 70198983 to add alternative resonator, alternative diodes, and alternative shunt regulators.
000070198983	2019-01-11	Original cCSAus Hazloc certificate for Liquiline compact transmitter models CM72 & CM82 for intrinsically safe protection.