Certificate of Compliance

Certificate: 70190447 **Master Contract:** 200600

Project: 80160651 **Date Issued:** 2023-05-03

Issued To: **Endress+Hauser Wetzer GmbH Co. KG**
Obere Wank 1
Nesselwang, Bavaria, 87484
Germany

Attention: Eva Rizzo

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: *Andreas von der Brelie*
Andreas von der Brelie

C US US

PRODUCTS
CLASS - C225286 - PROCESS CONTROL EQUIPMENT Certified to US Standards
CLASS - C225206 - PROCESS CONTROL EQUIPMENT Process Control Equipment

The temperature transmitter TMT71, TMT72, TMT71 DIN-rail, TMT72 DIN-rail, L20221, L20221 DIN-rail, L20222, L20222 DIN-rail, TMT82, TMT82 DIN-rail, TMT84, TMT85, TMT31, F2058HRTD, TMT86 and E2054HAPL is a two-wire transmitter with analogue output.

Model TMT72, TMT72 DIN-rail, L20222, L20222 DIN-rail, TMT82 and TMT82 DIN-rail will be programmed by Hart® - Protocol
Model TMT71, TMT71 DIN-rail, L20221, L20221 DIN-rail, TMT84, TMT85, TMT31, F2058HRTD, TMT86 and E2054HAPL will be programmed by PC

Ratings:

TMT71, TMT72 (optional with field housing TA30A, TA30D, TA30H):	10-36 Vdc, (absolute values) Max. current 23 mA
L20221, L20222 (optional with field housing TA30A, TA30D, TA30H):	10-36 Vdc, (absolute values) Max. current 23 mA
TMT71 DIN rail, TMT72 DIN rail:	10-36 Vdc, (absolute values) Max. current 23 mA
L20221 DIN-rail, L20222 DIN-rail:	10-36 Vdc, (absolute values) Max. current 23 mA
TMT82 (optional with field housing TA30A, TA30D, TA30H, two chamber housing):	11-42 Vdc, (absolute values) Max. current 23 mA
TMT82 DIN rail:	12-42 Vdc, (absolute values) Max. current 23 mA
TMT84 (optional with field housing TA30A, TA30D, TA30H):	9-32 Vdc, (absolute values) Max. current 23 mA
TMT85 (optional with field housing TA30A, TA30D, TA30H):	9-32 Vdc, (absolute values) Max. current 23 mA
TMT31 (optional with field housing TA30A, TA30D, TA30H):	10-36 Vdc, (absolute values) Max. current 23 mA
F2058HRTD (optional with field housing TA30A, TA30D, TA30H):	10-36 Vdc, (absolute values) Max. current 23 mA
TMT86 (optional with field housing TA30A, TA30D, TA30H):	9-30 Vdc, (absolute values) Max. power consumption 0.7 W

E2054HAPL (optional with field housing TA30A, TA30D, TA30H):	9-30 Vdc, (absolute values) Max. power consumption 0.7 W

Pollution degree 2;
Installation category: DC supplied; OVC I
IP20
IP66, IP67, IP68 (only for models with field housing TA30A, TA30D, TA30H) For details see Att5 IP test report
IP66, IP67 (only for model TMT82 with two chamber housing)
Extended: -40 to +85 °C
Altitude up to 4000 m
Rel. humidity up to 95%

APPLICABLE REQUIREMENTS

CSA Standards:

CAN/CSA-C22.2 No. 61010-1-12 UPD1:2015, UPD2:2016, AMD1:2018	- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

UL Standards:

UL 61010-1, 3rd Edition (2012), AMD1: 2018	- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

Conditions of Acceptability:

1 For model TMT71, TMT72, TMT71 DIN-rail, TMT72 DIN-rail, L20221, L20221 DIN-rail, L20222, L20222 DIN-rail, TMT82, TMT82 DIN-rail, TMT84, TMT85, TMT31, F2058HRTD, TMT86 and E2054HAPL: the device may only be powered by a power supply unit with a limited energy electric circuit in accordance with CSA/UL/EN/IEC 61010-1:2010 chapter 6.3.1/6.3.2 and 9.4 or class 2 according to CSA 223/UL 1310.

2 For models TMT71, TMT72, L20221, L20222, TMT82, TMT31 and F2058HRTD with field housing TA30A, TA30D, TA30H, two chamber housing (wet location): the device may only be powered by a power supply unit with a limited energy electric circuit in accordance with CSA/UL/EN/IEC 61010-1:2010 chapter 6.3.2 and 9.4 or class 2 according to CSA 223/UL 1310.

3 Equipment has only been tested for electrical safety. No evaluations of functional safety and performance characteristics have been performed.

4 Equipment is only to be installed by trained personal in accordance to the installation, set-up, operation and maintenance of comparable devices and certified as being capable of such work.

5 Equipment has only been tested for use in ordinary locations. No evaluations for use in hazardous locations have been performed.

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.

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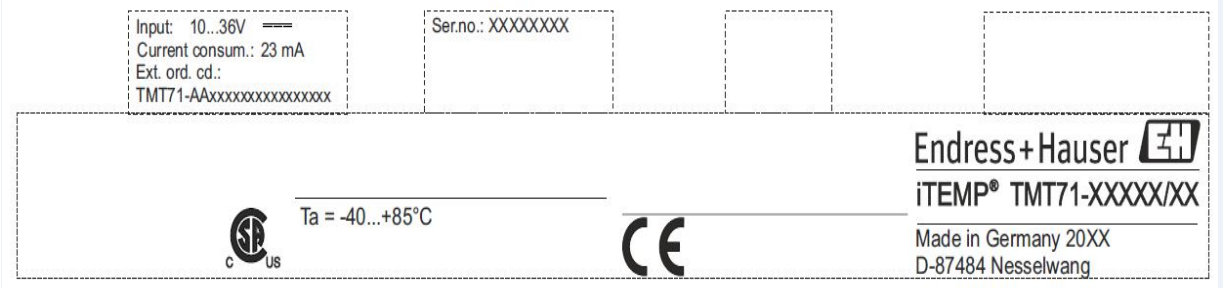
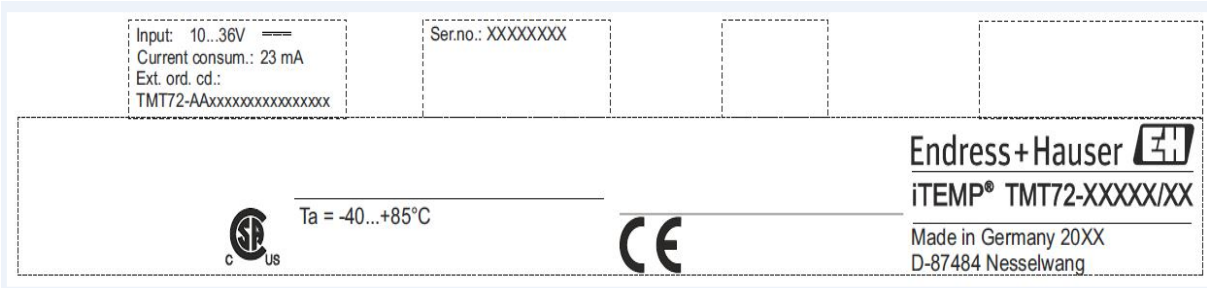
The following markings appear on the product:

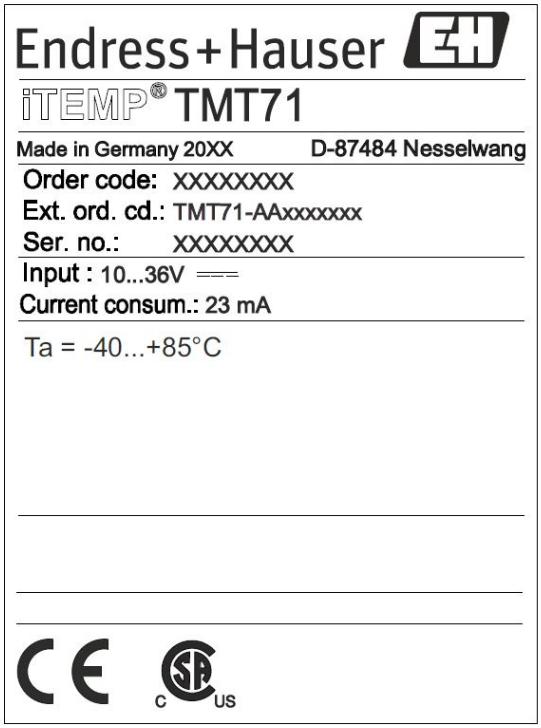
1. Submittor's identification (company name and/or file number and/or registered tradename);
2. Model designation;
3. Electrical rating;
4. Date of manufacture: Month and year of manufacture or date code. If a serial number is used instead of date of manufacture, a record of serial numbers shall be kept traceable to date of manufacture. (Not related to date of sale).
5. The products listed 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:

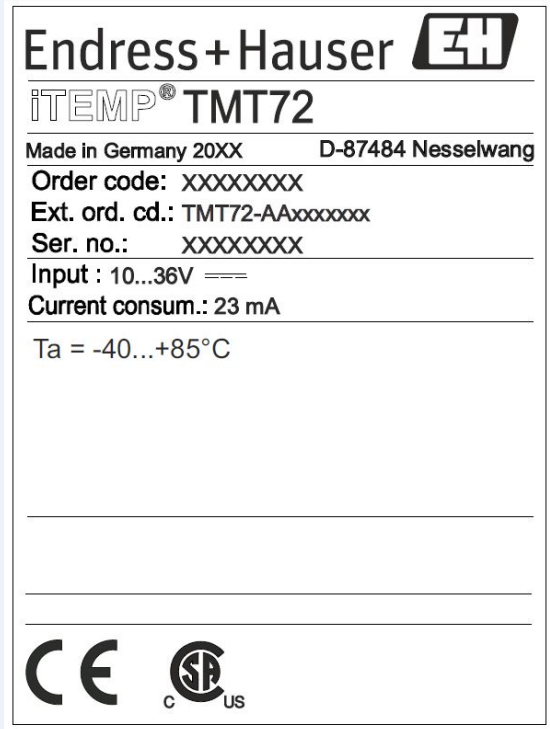
 , or , or .

Mark	Symbol	Reference	Title
	⎓	IEC 60417-5031	Direct current

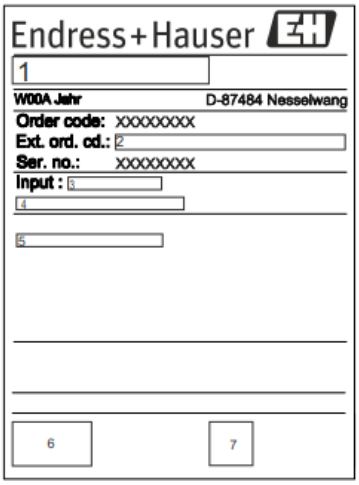






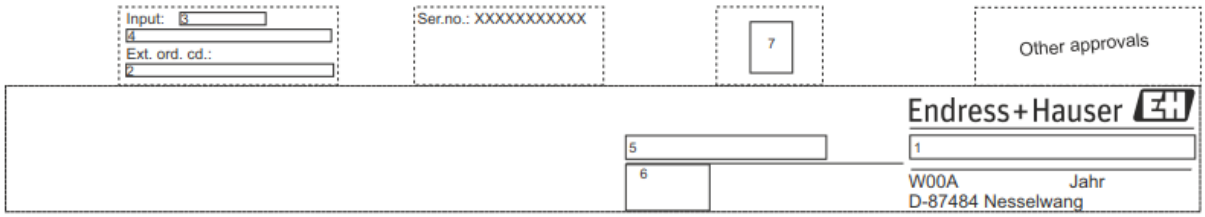


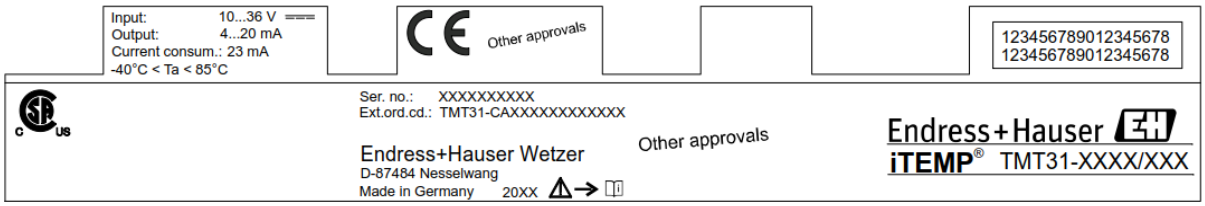
For electrical connection 030 = 3, 4, 5:

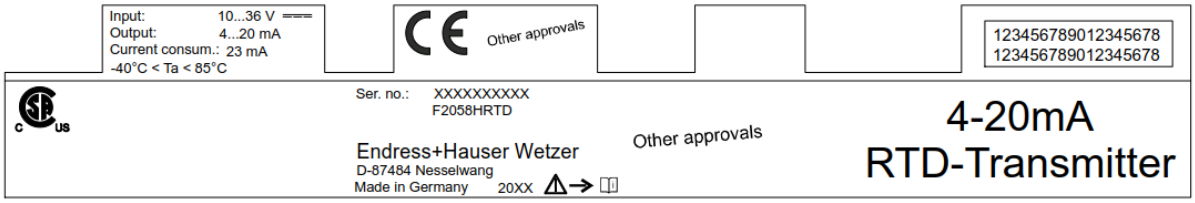


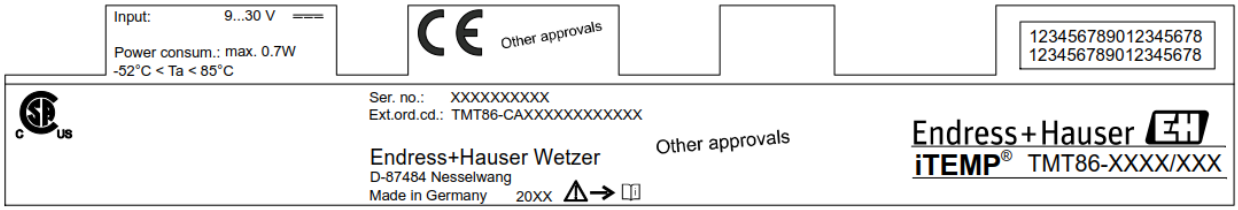
F ield No.	Order code	Contents	Comment
W00A	TMT8x	e.g. Made in Germany	Country of manufacturing location
Jahr	TMT8x	e.g. 20XX	Year of manufacture
1	TMT82	iTEMP TMT82	Type
	TMT84	iTEMP TMT84	
	TMT85	iTEMP TMT85	
2	-	TMT82-*********	Mandatory order code
	-	TMT84-*********	Mandatory order code
	-	TMT85-*********	Mandatory order code
3	030 = 3, 4, 5	12-42V ⎓	Input
	030 = 1, 2	11-42V ⎓	
	030 = 1, 2	9-32V ⎓	
	030 = 1, 2	9-32V ⎓	
4	TMT82	Current consum.: 23 mA	Current consumption
	TMT84		
	TMT85		
5	TMT82	Ta = -40...+85°C	Ambient temperature
	TMT84	Ta = -40...+85°C	
	TMT85	Ta = -40...+85°C	
6	TMT82	CE	CE marking w ithout NB
	TMT84		
	TMT85		
7	TMT82	CSA	CSA approval mark
	TMT84		
	TMT85		

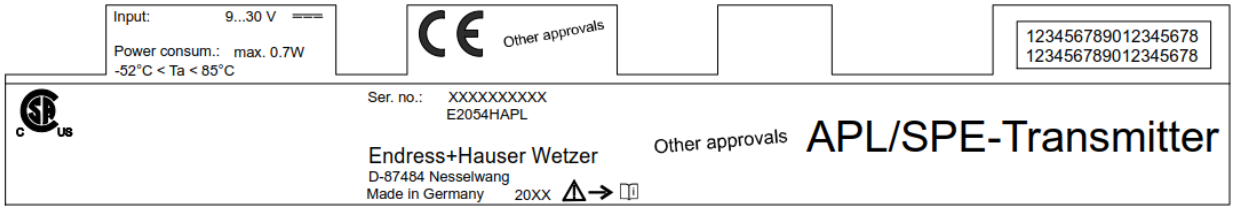
For electrical connection 030 = 1, 2:



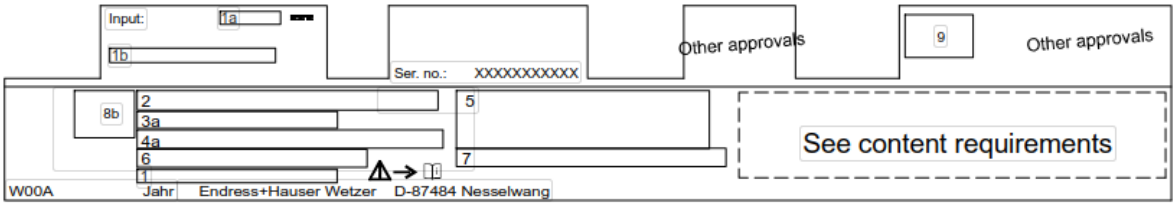








Layout: Type L2022x:



No.	Order code	Contents	Comment
W00A	L2022x	e.g. Made in Germany	Country of manufacturing location
Jahr	L2022x	e.g. 20XX	Year of manufacture
1	-	L20221-*********	Mandatory order code
1	-	L20222-*********	Mandatory order code
1a	010=CA, AA, 020 = A, P & 030 = 1	10...36V	ratings
	010=CA, AA, 020 = A, P & 030 = 2, 3	11...36V	
1b	020 = A, P	Current consum.: 23 mA	
7		Ta = -40...85°C	Ambient temperature
8b	010 = CA		CSA approval mark
9	010 = CA, AA		CE marking without NB

Marking Method: The above markings are made via silk screening, die stamping, moulding or on CSA certified or UL recognized adhesive nameplate material compatible with the surface used, or other equivalent permanent means that can pass the label rub test under clause 5.3.

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Notes:

Products certified under Class C225206, C225286 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

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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
80160651	2023-05-03	Update to report 70190447 to add new models L20221 and L20222 without testing.
80101931	2022-04-14	Update to Report 70190447 to add new model TMT86 and E2054HAPL
80082275	2021-10-21	Update to Report 70190447 to add new model TMT31 and F2058HRTD, upgrade to the latest version of the standard.
80049310	2020-07-27	Update to Report 70190447 to add new model TMT82, TMT82 DIN-rail, TMT84, TMT85.
70216113	2019-05-22	Update to Report 70190447 for addition of models TMT71 DIN-rail and TMT72 DIN-rail.
70190447	2018-11-15	Original cCSAus Certification of temperature transmitter, models TMT71 and TMT72