

CERTIFICATE OF CONFORMITY

1. HAZARDOUS (CLASSIFIED) LOCATION COMPONENT PER US REQUIREMENTS
2. Certificate No: FM22US0097U
3. Component:
(Type Reference and Name) TID10
Display Module
4. Name of Listing Company: Endress+Hauser Wetzler GmbH+Co Kg
5. Address of Listing Company: Obere Wank 1
Nesselwang, D87484
Germany
6. The examination and test results are recorded in confidential report number:
3035410 dated 9th April 2009
7. FM Approvals LLC, certifies that the component described has been found to comply with the following Approval standards and other documents:
FM Class 3600:2022, FM Class 3610:2021, FM Class 3611:2021, FM Class 3810:2021,
ANSI/UL 60079-0:2020, ANSI/UL 60079-11:2018
ANSI/ISA 61010-1:2012
8. The sign 'U' placed after the certificate number indicates that this certificate must not be mistaken for a certificate for equipment or a protective system. This certificate may only be used as the basis for the certification of equipment or a protective system. This certificate is issued to the manufacturer also intended to be the holder of the equipment certificate which includes this component.

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

18 January 2023

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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SCHEDULE



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9. This certificate relates to the design, examination and testing of the component specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the component as examined, tested and Approved.

10. Component Ratings:

Intrinsically safe for use in Class I, Division 1, Groups A, B, C, D, temperature class T4 at $-40\text{ }^{\circ}\text{C} \leq T_a \leq 85\text{ }^{\circ}\text{C}$, T5 at $-40\text{ }^{\circ}\text{C} \leq T_a \leq 70\text{ }^{\circ}\text{C}$, T6 at $-40\text{ }^{\circ}\text{C} \leq T_a \leq 55\text{ }^{\circ}\text{C}$; Nonincendive for use in Class I, Division 2, Groups A, B, C, D, temperature class T4 at $-40\text{ }^{\circ}\text{C} \leq T_a \leq 85\text{ }^{\circ}\text{C}$, T5 at $-40\text{ }^{\circ}\text{C} \leq T_a \leq 70\text{ }^{\circ}\text{C}$, T6 at $-40\text{ }^{\circ}\text{C} \leq T_a \leq 55\text{ }^{\circ}\text{C}$ hazardous (classified) locations

11. The marking of the component shall include:

The display assembly does not bear marking. Marking is provided as part of the final instrument into which the display is incorporated.

12. **Description of Equipment:**

General – Display module TID10 is an optional module display device for use with the TMT82, TMT84 PA and TMT85 FF transmitters from Endress+Hauser Wetzler GmbH+Co Kg and FM Approved under FM17US0306X.

Construction – The display module's input connector, X37 (drawing 34 01 01 020 011), is intended for connection to the CDI connector (drawing 34 02 01 010 030) of the TMT82, TMT84 PA and TMT85 FF transmitters. The display module is affixed to the TMT84 PA and TMT85 FF transmitters by way of snap-on tabs.

Ratings – The input parameters for the display module are:

$U_i = 7.2\text{ V}$
 $I_i = 56\text{ mA}$
 $P_i = 0.4\text{ W}$
 $C_i = 3.7\text{ }\mu\text{F}$
 $L_i = 0\text{ }\mu\text{H}$

The display module is rated for use over an ambient temperature range of $-40\text{ }^{\circ}\text{C}$ to $85\text{ }^{\circ}\text{C}$.

13. **Schedule of Limitations:**

1. The Model TID10 Display Module shall be connected, within a final enclosure, to Endress+Hauser Wetzler GmbH+Co Kg's TMT82, TMT84 PA or TMT85 FF electronics (FM17US0306X). TID10 Display connector X37 shall be connected to TMT82, TMT84 PA or TMT85 FF connector CDI.

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

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15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
9 th April 2009	Original Issue.
18 th January 2023	Supplement 1: Report Reference: – RR235375 dated 18 th January 2023. Description of the Change: Update FM Class 3600 from 1998 to 2022 edition. Update FM Class 3610 from 2007 to 2021 edition. Update FM Class 3611 from 2004 to 2021 edition. Update FM Class 3810 from 2005 to 2021 edition. Add references to ANSI/UL 60079-0:2020 and ANSI/UL 60079-11:2018, applied as the primary basis for FM Class 3610. Add reference to ANSI/ISA 61010-1:2012, applied as the primary basis for FM Class 3810. Issue new-format certificate as component “U”.

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