

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM19US0223X
3. **Equipment:** ACT100xx Weight Transmitter
(Type Reference and Name)
4. **Name of Listing Company:** Mettler-Toledo GmbH
5. **Address of Listing Company:** Im Langacher 44
CH-8606 Greifensee, Switzerland
6. The examination and test results are recorded in confidential report number:
PR455630 dated 11th May 2020
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
FM Class 3600:2018, FM Class 3611:2018, FM Class 3810:2018,
ANSI/UL 121201:2017, ANSI/UL 61010-1:2016
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products 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 product as examined, tested and Approved.
10. **Equipment Ratings:**
Associated Nonincendive for Class I, II, III, Division 2, Groups A, B, C, D, F and G; Class I, Zone 2, Group IIC and Class II, Zone 22, Group IIIB in accordance with installation drawing 30565571 with an ambient temperature range of -10°C to +40°C.

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

22 June 2020

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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11. The marking of the equipment shall include:

Associated Nonincendive Field Wiring Apparatus for connection to:

Class I, II, III, Division 2, Groups A, B, C, D, F and G;

Zone 2, IIC;

Zone 22, IIIB;

Ta = -10°C to +40°C

See Control Drawing 30565571 for NIFW parameters

12. **Description of Equipment:**

The ACT100xx transmitter is a weighing product that transfers weight data to a customer control system (PLC/DCS) via analog signal (current or voltage) normally 4-20mA or 0-10Vdc.

It has an RJ45 port which is only used for Configuration/Service and for manufacturing purposes only. No external device will be connected to the ACT100xx via this port during normal operation. In addition, it provides a digital I/O interface with three discrete inputs and two discrete outputs.

The ACT100xx transmitter is intended to be used according to the following environmental conditions:

The transmitter can be operated at temperatures ranging from -10° to 40° C (14° to 104° F) at 10% to 85% relative humidity non-condensing.

ACT100xx is powered by a suitable SELV 12-30 Vdc power source.

NIFW Output Parameters - Analog Load Cell Interface

Connector	Uo (V)	Io (mA)	Co (uF)	Lo (uH)
J3(1 - 7)	5.08 VDC	221	0.3	160

13. **Specific Conditions of Use:**

1. The equipment shall be installed within an enclosure in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

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

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

15. **Schedule Drawings**

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

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16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
11 th May 2020	Original Issue.
3 rd June 2020	Supplement 1: Report Reference: – PR455630 (reissue) dated 3 rd June 2020. Description of the Change: The “Specific Condition of Use” has been changed from “The equipment is intended to be installed within a secondary enclosure providing a minimum Ingress Protection rating of IP54 to ”The equipment shall be installed within a tool-secured enclosure in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application”.
22 nd June 2020	Supplement 2: Report Reference: – RR224044 dated 22 nd June 2020 Description of the Change: Removal of the words “tool secured” in the Specific Condition of Use

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