

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**
2. **Certificate No:** FM21CA0051X
3. **Equipment:** PBxxxxyy-zzww Bench Platforms
(Type Reference and Name)
4. **Name of Listing Company:** Mettler-Toledo GmbH
5. **Address of Listing Company:** Im Langacher 44
Greifensee CH-8606
Switzerland
6. The examination and test results are recorded in confidential report number:

PR460698 dated 20th September 2021
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

CSA-C22.2 No. 213:2017, CAN/CSA-C22.2 No. 60079-0:2019,
CAN/CSA-C22.2 No. 60079-7:2018, CAN/CSA-C22.2 No. 60079-11:2014,
CAN/CSA-C22.2 No. 60079-31:2015, CSA-C22.2 No. 60529:2016
CAN/CSA-C22.2 No. 61010-1:2012
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.

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

20 September 2021
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

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SCHEDULE



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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:

Intrinsically Safe for Class I,II,III, Division 1, Groups A, B, C, D, E, F, and G; Class I, Zone 1, Ex ia IIC T6...T4 Gb; Intrinsically Safe for Class II,III, Zone 21, Ex ia IIIC T80°C Db with an ambient temperature rating of $40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ for T5/T4 and $-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ for T6; Nonincendive for Class I,II,III, Division 2, Groups A, B, C, D, E, F, and G; Increased safety 'ec' Class I, Zone 2, Group IIC; Protection by enclosure 'tc', Zone 22, Group IIIC hazardous locations, indoors and outdoors (IP67).

11. The marking of the equipment shall include:

For PBA Bench Platforms used in Division 1, Zone 1, or Zone 21:

IS Class I,II,III, Division 1, Groups ABCDEFG; T6...T4
Ex ia IIC T6...T4 Gb
Ex ia IIIC T80°C Db
 $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ T5/T4; $-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ T6

For PBA Bench Platforms used in Division 2, Zone 2 and Zone 22:

NI Class I,II,III, Division 2, Groups ABCDFG T6 $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
Ex ec IIC T6 Gc
Ex tc IIIC T80°C Dc
 $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

12. **Description of Equipment:**

General - The PBA Series Bench Platform is a load cell based platform. The load cell is the FM approved SLP84x (reference certificate FM21CA0002X).

Construction - The PBA Series Bench Platform consists of a load cell, an enclosure constructed of a welded stainless-steel frame and a stainless-steel platter. The entire platform is rated IP67.

Ratings - The ambient operating temperature range of the PBA series bench platform is -40°C to $+60^{\circ}\text{C}$ for T5/T4 and -40°C to $+40^{\circ}\text{C}$ for T6 for the IS version and -40°C to $+60^{\circ}\text{C}$ for the NI, ec, and tc versions.

The "ia" version is powered by an approved device with energy limitation (entity) parameters as follows: $U_i=20\text{V}$, $C_i=6\text{nF}$, $L_i=30\text{uH}$. For T4, $P_i = 2.1\text{W}$, $I_i = 800\text{mA}$. For T5, $P_i = 1.2\text{W}$, $I_i = 600\text{mA}$ and for T6, $P_i = 0.6\text{W}$, $I_i = 600\text{mA}$.

The Nonincendive version uses Nonincendive Field Wiring parameters equivalent to the entity parameters listed above.

The "tc" and "ec" versions are powered as follows: $U_{rated} = 20\text{V}$, $I_{rated} = 50\text{mA}$.

PBAxxxxyy-zzww Bench Platforms

xxx = 439 or 639

yy = x (Division 1, Zone 1, or Zone 21) or xx (Division 2, Zone 2 or Zone 22)

zz = Platform size type: A, B, BB, BC, CC, QA or QB

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ww = Scale capacity in kilograms.

13. Specific Conditions of Use:

1. In an explosive atmosphere caused by air/dust moistures, the loose ends of the cable shall be connected outside the hazardous area or in a suitable enclosure with a degree of protection of at least IP6X in accordance with IEC/EN 60529.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

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
20 th September 2021	Original Issue.

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