

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM21US0076X
3. **Equipment:** PBAXxyy-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 xxx
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 3610:2021, FM Class 3611:2021, FM Class 3810:2021,  
ANSI/UL 60079-0:2019, ANSI/ISA 60079-11:2014, ANSI/UL 121201:2017,  
ANSI/UL 61010-1:2012, ANSI/IEC 60529:2020
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](http://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, AEx ia IIC T6...T4 Gb; Intrinsically Safe for Class II,III, Zone 21, AEx ia IIIC T80°C Db with an ambient temperature rating of  $40^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$  for T5/T4 and  $-40^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$  for T6; Nonincendive for Class I,II,III, Division 2, Groups A, B, C, D, F, and G hazardous (classified) 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  
Class I, Zone 1, AEx ia IIC T6...T4 Gb  
Class II,III, Zone 21, AEx ia IIIC T80°C Db  
 $-40^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$  T5/T4;  $-40^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$  T6

**For PBA Bench Platforms used in Division 2:**

NI Class I,II,III, Division 2, Groups ABCDFG T6  $-40^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$

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 FM21US0005X).

**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  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  for T5/T4 and  $-40^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$  for T6 for the IS version and  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  for the NI version.

The "ia" version is powered by an approved device with energy limitation (entity) parameters as follows:  $U_i=20\text{V}$ ,  $C_i=6\text{nF}$ ,  $L_i=30\mu\text{H}$ . 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.

**PBAxxxxyy-zzww Bench Platforms**

xxx = 439 or 639

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

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

ww = Scale capacity in kilograms

13. **Specific Conditions of Use:**

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# SCHEDULE



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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 US Certification Requirements.

**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 <sup>th</sup> September 2021	Original Issue.

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