

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM19US0153X
3. **Equipment:** RPA455x Paint Mixing Scale
(Type Reference and Name)

4. **Name of Listing Company:** Mettler-Toledo GmbH.

5. **Address of Listing Company:** Im Langacher44,
CH-8606 Greifensee,
Switzerland

6. The examination and test results are recorded in confidential report number:

PR452658 dated 1st November 2019

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, Class 3610:2018, FM Class 3810:2018,
UL 60079-0:2018, UL 60079-11:2014
ANSI/IEC 60529:2004, ANSI/ISA 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.

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, Division 1, Groups C and D; Intrinsically safe for Class I, Zone 1, AEx ib IIB T4 Gb hazardous (classified) indoor locations, with an ambient temperature rating of 0°C to +40°C.

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

1 November 2019

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:

IS Class I Division 1, Groups C, D; T4 Ta = 0°C to +40°C;

Class I, Zone 1, AEx ib IIB Gb; T4 Ta = 0°C to +40°C;

12. **Description of Equipment:**

General - The RPA455x Paint Mixing Scales are single-range or multiple-range scales which are designed mainly for paint mixing applications.

The RPA455x Paint Mixing Scales are powered from intrinsically safe power supplies or barriers with compatible entity parameters. Connection is made to the RJ45 socket underneath the scale using one of two RJ45 intrinsically safe connector cable assemblies 30470188 (20 Meters) or 30470195 (10 Meters) supplied by Mettler-Toledo GmbH.

Construction - The enclosures are constructed from both metal and plastic and are intended for indoor use only. Ingress protection provided by the enclosure is IP40.

Ratings –

Temperature range: 0°C to +40°C.

Electrical: The entity parameters are listed below:

Pin #s	Name/ Remark					
		U _i	I _i	P _i	C _i	L _i
1	+ V1 (P1)	10.72V	191mA	2.048W	5.324uF	0
4	+ V2 (P2)	10.72V	213mA	2.284W	10.725uF	0
7, 8	RS232_TXD/RXD	± 10.72V	191mA	275mW	1.41nF	0
		U _o	I _o	P _o	C _o	L _o
7, 8	RS232_TXD/RXD	± 10.72V	21.7mA	58.1mW	0.18uF	180uH
2, 3, 5, 6	Ground Pins					

13. **Specific Conditions of Use:**

1. Only the Mettler-Toledo intrinsically safe cable 30470188 (20 Meters) or 30470195 (10 Meters) shall be used for connection to the intrinsically safe outputs of the associated apparatus.
2. The enclosure contains aluminum and is considered to present a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact or friction.
3. Parts of the enclosure are constructed of plastic. The risk of electrostatic discharge shall be minimized at installation, following the direction given in the instruction manual.
4. The Paint Mixing Scale does not withstand a 500Vrms dielectric strength test between the circuits and the earth ground. This must be taken into account during installation.

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
1 st November 2019	Original Issue.

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