



# 1 TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective systems intended for use in Potentially  
Explosive Atmospheres - Directive 2014/34/EU

3 Type Examination Certificate No: FM19ATEX0213X

4 Equipment or protective system: ACT100xx Weight Transmitter  
(Type Reference and Name)

5 Name of Applicant: Mettler-Toledo GmbH

6 Address of Applicant: Im Langacher 44  
CH-8606 Greifensee, Switzerland

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Europe Ltd. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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

PR455630 dated 11<sup>th</sup> May 2020

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-7:2015+A1:2018 and EN 60079-15:2010

10 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.

11 This Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



II 3 G Ex nA IIC T4 Gc Ta = -10° to +40°C

II 3 G Ex ec IIC T4 Gc Ta = -10° to +40°C

*Damien McArdle*

**Damien Mc Ardle**  
Certification Manager, FM Approvals Europe Ltd.

Issue date: 14<sup>th</sup> May 2020

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

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# SCHEDULE

to Type Examination Certificate No. FM19ATEX0213X

## 13 Description of Equipment or Protective System:

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.

### Electrical Supply

12-30Vdc, Agency approved Zone 2 Power supply or  
12-30Vdc, Class 2 or Limited Power source (LPS) Type, SELV power supply

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.

## 14 Specific Conditions of Use:

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1
2. The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with EN 60079-0 and EN 60079-15
3. Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment

## 15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

## 16 Test and Assessment Procedure and Conditions:

This Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

## 17 Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by FM Approvals Europe Ltd.

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# SCHEDULE

to Type Examination Certificate No. FM19ATEX0213X

## 18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
14 <sup>th</sup> May 2020	Original Issue.

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# ***Mettler-Toledo GmbH (Greifensee) (1000007391)***

**Class No 3611**

***Original Project I.D. 455630***

***Certificate I.D. FM19ATEX0213X***

<b><u>Drawing No.</u></b>	<b><u>Revision Lev</u></b>	<b><u>Drawing Title</u></b>	<b><u>Last Report</u></b>
30529357_MAN_UM_ACT100	00	ACT100 Weight Transmitter User Guide	PR455630
30529618A	A	ACT100 Label	PR455630
30529621B	B	Weighing Transmission ACT100xx DIN	PR455630
30529621B	B	Weighing Transmission ACT100xx DIN	PR455630
30529641_MAN_D2Z2IM_ACT100xx	01	Div 2, Zone 2 Installation Manual	PR455630
30562232A1	A	Installation Drawing ACT100xx, ATEX/IECEX	PR455630
30562232A2	A	Installation Drawing ACT100xx, ATEX/IECEX	PR455630
30566600A	A	Ex Label, FM/ATEX/IECEX, ACT100xx	PR455630
BOM_30488897	F	ACT100 Mainboard	PR455630
BOM_30490215	D	AD1	PR455630
EAD_30488897	F	PCBAB ACT100 Mainboard	PR455630
EAD_30490215	D	PCBAB ACT100 AD&Power	PR455630
PNL_30490202	B	PNL, Mult, ACT100 AD&Power	PR455630
SCH_30488897	F	PCBAB ACT100 Mainboard	PR455630
SCH_30490215	D	PCBAB ACT100 AD&Power	PR455630