

Translation

# EU-Type Examination Certificate

Equipment intended for use in potentially explosive atmospheres  
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 17 ATEX E 026 X**

Product: **Load cell type \*MPXI\*\*\***

Manufacturer: **Mettler-Toledo GmbH**

Address: **Im Langacher 44, 8606 Greifensee, Switzerland**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 17.2062 EU.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012 + A11:2013    General requirements**  
**EN 60079-11:2012                Intrinsic Safety "i"**

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:



**II 2G Ex ib IIC T4 Gb**  
**II 2D Ex ib IIIC T50°C Db**

DEKRA EXAM GmbH  
Bochum, 2017-04-10

Signed: Jörg Koch

Certifier

Signed: Dr Michael Wittler

Approver

## 13 Appendix

## 14 EU-Type Examination Certificate BVS 17 ATEX E 026 X

## 15 Product description

### 15.1 Subject and type

Load cell type \*MPXI\*\*\*

Instead of the \*\*\* in the complete denomination letters or numerals will be inserted which characterize the different non-EX relevant modifications.

### 15.2 Description

The Load cell type \*MPXI\*\*\* consists of a stainless steel enclosure with an installed electronics platform type O4A-MFR-Ex1. The O4A-MFR-Ex1 electronics consists of Mainboard, Cellboard and AnyDriveEx1.

The Load cell is used in hazardous areas. The electrical connection is done by an M12 plug.

### 15.3 Parameters

#### 15.3.1 Supply input circuit U1, pin 1 - 6, 10

Maximum input voltage	$U_i$	DC	8.7	V
Maximum input current	$I_i$		133	mA
Maximum input power	$P_i$		1.16	W
Effective internal capacitance	$C_i$		0.121	$\mu$ F
Effective internal inductance	$L_i$			negligible

#### 15.3.2 Supply input circuit U2, pin 2 - 6, 10

Maximum input voltage	$U_i$	DC	12.6	V
Maximum input current	$I_i$		42	mA
Maximum input power	$P_i$		530	mW
Effective internal capacitance	$C_i$		0.121	$\mu$ F
Effective internal inductance	$L_i$			negligible

#### 15.3.3 Signal circuits TxD\_CL, pin 4 - 6, 10 and RxD\_CL, pin 8 - 6, 10

Maximum input voltage	$U_i$	DC	10.5	V
Maximum input current	$I_i$		74	mA
Maximum input power	$P_i$		780	mW
Effective internal capacitance	$C_i$			negligible
Effective internal inductance	$L_i$			negligible

#### 15.3.4 Temperatures

Ambient temperature range		-10 °C up to +40 °C
Max surface temperature for dust applications		50 °C

#### 15.3.5 Degree of protection

IP67

16 **Report Number**

BVS PP 17.2062 EU, as of 2017-04-10

17 **Special Conditions for Use**

- 17.1 The membrane around the force transmission has to be protected against mechanical damage and direct sunlight radiation.
- 17.2 The intrinsically safe circuits are earthed. Along external circuits, equipotential equalization has to exist.

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 **Drawings and Documents**


Drawings and documents are listed in the confidential report.

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We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH  
Bochum, dated 2017-04-10  
BVS-Hil/Nu A 20151055

  
\_\_\_\_\_  
Certifier

  
\_\_\_\_\_  
Approver