

Translation

Type Examination Certificate Supplement 4

Change to Directive 2014/34/EU

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

Type Examination Certificate Number: **BVS 10 ATEX E 131 X**

Product: **Load cell type *MPGI*****

Manufacturer: **Mettler Toledo GmbH**

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

This supplementary certificate extends Type Examination Certificate No. BVS 10 ATEX E 131 to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any variations specified in the appendix attached to this certificate and the documents referred to therein.

DEKRA EXAM GmbH 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 10.2238 EU.

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

| | |
|-----------------------------------|------------------------------------|
| EN 60079-0:2012 + A11:2013 | General requirements |
| EN 60079-15:2010 | Type of Protection "n" |
| EN 60079-31:2014 | Protection by Enclosure "t" |

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 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 3G Ex nA IIC T6 Gc**
II 3D Ex tc IIIC T60°C Dc

DEKRA EXAM GmbH
Bochum, 2016-10-31

Signed: Jörg Koch

Certifier

Signed: Dr. Michael Wittler

Approver

13 **Appendix**

14 **Type Examination Certificate**

**BVS 10 ATEX E 131 X
Supplement 4**

15 **Product description**

15.1 **Subject and type**

Load cell type "MPGI"

*1) MPGI²⁾ ***3)

*1) Not Ex-relevant

MPGI²⁾ Type description of the load cell

***3) Not Ex-relevant

15.2 **Description**

With this supplement the certificate is changed to Directive 2014/34/EU.
(Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

Description of Product:

The load cell is part of a weighing platform with direct transmission force or with load lever system. The weighing principle is based on magnetic force restoration technology.

The load cell can either be connected to a Mettler-Toledo weighing terminal with a SICSPRO connector according to the interface specification listed below or with the interface converter SICSPRO-IDNet-Converter type ACC409xx (BVS 14 ATEX E 169 X). The load cell is equipped with a separately tested M12 connector (Test report: BVS PB 03/16) according to drawing 30241656-1.

Additional, the load cell is equipped with a separately certified pressure compensation element Gothe&Co. type 54710 (IBExU 00 ATEX 1070 U).

Reason for the supplement:

- Change of the type code
- Modification of the parameters
- Change to Directive 2014/34/EU
- Updating to the standards EN 60079-0:2012, EN 60079-15:2010, EN 60079-31:2014
- Including a separately tested M12 plug connection according to drawing No.: 30241656-1 (See test report: BVS PB 03/16)
- Including new holder for membrane
- Use of a separately certified pressure compensation IBExU 00 ATEX 1070 U
- Changing the manufacturer from Mettler Toledo AG, Heuwinkelstraße 3, CH-8606 Nänikon to Mettler Toledo GmbH, Im Langacher 44, CH-8606 Greifensee

15.3 **Parameters**

- 15.3.1 **Power supply:**
Nominal voltage range 12 ... 24 VDC +20 % / -30 %
(8.5...28.8 VDC)
- Rated current
Nominal input current (normal weighing) ≤ 120 mA
Maximum input current during calibration ≤ 200 mA*
- Rated power
Nominal power (normal weighing) ≤ 1.2 W
Maximum power during calibration ≤ 1.5 W*

*The operation of the calibration drive takes a maximum of 10 seconds (during initialization). The additional temperature rise due to this can be considered negligible.

- 15.3.2 **Thermal data**
Ambient temperature $-10\text{ °C} \leq T_{\text{amb}} \leq +40\text{ °C}$

16 **Report Number**

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17 **Special Conditions for Use**

- The membrane (No.: 30041056) around the force transmission has to be protected against mechanical damage and direct sunlight radiation.
- The M12 flange socket and the M12 plug (drawing No.: 30241656-1) are effectively protected against mechanical damage by using the assembled protective bracket.

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.

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 2016-10-31
BVS-Pz/Ret/Nu A 20160614



Certifier



Approver