

(1) **EC-TYPE EXAMINATION CERTIFICATE**


- (2) Equipment or protective system intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: **KEMA 03ATEX1481 X**
- (4) Equipment or protective system: **Weighing Cell Type WMH15sx-cl and WMH32sx-cl**
- (5) Manufacturer: **Mettler-Toledo GmbH**
- (6) Address: **Heuwinkelstrasse, CH-8606 Nänikon, Switzerland**
- (7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential report no. 2036217.

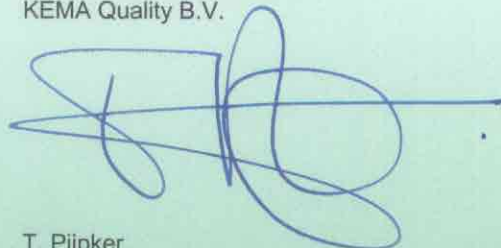
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014 : 1997 EN 50020 : 2002 EN 50281-1-1 : 1998

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system according to the Directive 94/9/EC. 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 the following:

 **II 2 G EEx ib IIC T4**
II 2 D T 55 °C

Arnhem, 17 October 2003
KEMA Quality B.V.



T. Pijpker
Certification Manager

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SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 03ATEX1481 X

(15) **Description**

The Weighing Cell Type WMH15sx-cl and WMH32sx-cl is a unit that is used in weighing systems. It converts an external mechanical load into electrical signals that are processed and displayed by external equipment.

The weighing cell is used with a dedicated interface, for example the certified Power Supply Unit PSU.

For the connection of the wiring a terminal board is housed in a separate connection box.

The enclosure of the weighing cell and the connection box provide a degree of ingress protection of at least IP 65 in accordance with EN 60529.

Ambient temperature range -10 °C ... +40 °C.

The maximum temperature of the enclosure T 55 °C is referred to an ambient temperature of 40 °C.

Electrical data

Supply and data circuits in type of explosion protection intrinsic safety EEx ib IIC, (terminals as listed in table) only for connection to the intrinsically safe circuits of a certified power supply unit, e.g. type PSU, with the maximum values as specified in the table below:

Signal designation and terminals	U _i (V)	I _i (mA)	P _i (W)	C _i (nF)	L _i (µH)
U1 5, 8/9	8,7	133	1,16	0,4	10
U2 10, 8/9	12,6	42	0,53	110	10
U3 6, 8/9	15,0	74	0,8	0,4	10
U4 7, 8/9	15,0	74	0,8	0,4	10

Installation instructions

To maintain the degree of ingress protection of at least IP 65 in accordance with EN 60529, certified cable entries in accordance with EN 50281-1-1 must be used and correctly installed. Unused openings must be closed with a suitable stopping plug.

(16) **Report**

KEMA No. 2036217.

(17) **Special conditions for safe use**

1. Because the intrinsically safe circuits are connected to the frame of the cell, the external GND connector of the cell shall be connected to the potential equalizing system within the hazardous area.
2. The interconnecting cable between the Weighing Cell and the connection terminals and the interconnecting cable between power supply unit and connection terminals must be mechanically protected according to EN 50039: 1980, clause 5.3.2.

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(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

1. EC-Type Examination Certificate KEMA 03ATEX1130 X

dated

2. Drawing No. ME-42'909'055 A
ME-42'909'056 A

01.10.2003
01.10.2003