

(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 01ATEX1116 X**
- (4) Equipment or protective system: **Weighing Scale Type Viper Ex SW, Type Viper Ex M, Type Viper Ex SW MB and Type Viper Ex M MB**
- (5) Manufacturer: **Mettler-Toledo (Albstadt) GmbH**
- (6) Address: **Unter dem Malesfelsen 34, 72458 Albstadt, Germany**
- (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. 2009030.

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

EN 50014 : 1997 EN 50020 : 1994

- (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 in accordance 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**

Arnhem, 11 January 2002
KEMA Quality B.V.



T. Pijpker
Certification Manager

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(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 01ATEX1116 X

(15) **Description**

The Weighing Scale line Viper Ex comprises compact scales in different variations. Scales type Viper Ex SW and Viper Ex M are straight weighing scales with a strain gauge cell, scales type Viper Ex SW MB and Viper Ex M MB are straight weighing scales with a monobloc cell.

The weighing scales are used with the Mettler-Toledo power supply unit Type PSUx or Type PSU, which provide intrinsically safe supply and data connections.

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

Electrical data

Supply and data circuits in type of explosion protection intrinsic safety EEx ib IIC, (connected via special cable) only for connection to the certified intrinsically safe circuits of power supply unit type PSUx or Type PSU, with the maximum values as specified in the table below:

Signal designation	U _i (V)	I _i (mA)	P _i (W)	C _i (nF)	L _i (mH)
U _d	8,7	133	1,15	100	0,01
U _a	12,6	42	0,53	100	0,01
U _{bl}	10,5	74	0,78	1	0
TXD	15	24	0,36	1	0
RXD	15	24	0,36	1	0

(16) **Report**

KEMA No. 2009030.

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

The ambient temperature range is limited to -10 °C ... +40 °C.

Because the intrinsically safe circuits are connected to the frame of the scale, the external GND connector of the scale must be connected to the potential equalizing system within the hazardous area.

The interconnecting cable between the PSU(x) power supply unit and the Weighing Scale must be mechanically protected according to EN 50039: 1980, clause 5.3.2.

(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 01ATEX1116 X

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

Covered by the standards listed at (9).

(19) **Test documentation**

signed

1. Description (6 pages)		14.08.2001
2. Drawing No.	ME-21203819 C	26.09.2001
	ME-21203820 C	29.11.2001
	ME-21203821 C	26.09.2001
	ME-21203822 C	29.11.2001
	ME-21203823 C	26.09.2001
	ME-21203734 B	03.07.2001
	ME-21203768 A	10.05.2001
	ME-21203828 C	05.12.2001
	ME-217234 A	07.07.1997
	ME-217241 A	03.07.1997
	ME-21203593 B	31.05.2001
	ES-21203593 B	30.05.2001
	CL-21203095 H (2 sheets)	08.02.1999
	ME-21203575 F	10.07.2001
	ES-21203575 E	10.07.2001
	CL-21203580 D (2 sheets)	16.03.2000
	ME-21203576 C	27.06.2001
	ES-21203576 C	27.06.2001
	CL-21203581 D (2 sheets)	13.07.2001
	ME-21203577 D	10.07.2001
	ES-21203577 C	10.07.2001
	CL-21203582 E (2 sheets)	27.04.2000
3. Samples		