



(1) **Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - **Directive 94/9/EC**

(3) Test Certificate Number

SEV 06 ATEX 0103 X

(4) Equipment: Power supply type PSX2

(5) Manufacturer: Mettler-Toledo AG

(6) Address: Im Langacher 44, CH-8606 Greifensee

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Electrosuisse SEV certifies that this equipment 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 results of the examination are recorded in the confidential report No. 05-IK-0249.01 incl. extension 1

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 1127-1:2007

EN 60079-0:2006

EN 60079-15:2005

(10) If the sign «X» is placed after the certificate number, it indicates that the equipment is subjected to special conditions for safe use specified in the schedule to this certificate.

(11) This type examination certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this directive apply to the manufacture and the placing on the market of this equipment.

(12) The marking of the equipment shall include the following:

 **II 3G Ex nA [nL] IIC T5**

Electrosuisse SEV
Certification Body ATEX

Martin Plüss
Product Certification



Fehraltorf, 2010-04-26

Replaces certificates dated
2006-04-03
Extension 1; new issued Standards

(13)

Appendix

(14)

type examination certificate SEV 06 ATEX 0103 X

(15) Description of the equipment

The Mettler Toledo power supply type PSX2 (category 3G) serves as a power supply for weighing systems XS xxxxx xX xx and platforms X xxxxx xX xx within hazardous areas of zone 2.

Ratings

Supply circuit
(Cable end)

230 V AC ($\pm 10\%$) / 0,1A / 50Hz

or

115 V AC ($\pm 10\%$) / 0,1A / 50Hz

Output circuit
(Cable end with
special connector)

with type of protection "limited power" Ex nL IIC

Maximum values:

$U_o \leq 13,5 \text{ V}$

$I_o \leq 1,2 \text{ A}$

$P_o \leq 6,0 \text{ W}$

$C_o \leq 213,0 \text{ nF}$ (max. permissible external capacitance)

$L_o \leq 10,0 \text{ }\mu\text{H}$ (max. permissible external inductance)

Note(s)

- According to RL 94/9/EC (ATEX 95) Appendix I, the Mettler Toledo power supply type PSX2 is a device of equipment group II, category 3G which, according to RL 99/92/EC (ATEX 137) can be used in zone 2 as well as gas groups IIA and IIB and IIC, which are potentially explosive due to combustible substances in the temperature classes T1 to T5. For use/installation, the requirements of EN 60079-14 must be observed.
- The permissible ambient temperature range is -10°C to $+40^\circ\text{C}$.

Appendix to type examination certificate SEV 06 ATEX 0103 X

- (16) Test report 05-IK-0249.01 incl. extension 1
- (17) Special conditions
1. The supply cable (power supply cable) of the Mettler Toledo power supply type PSX2 must be installed protected against mechanical damage.
 2. Only the special connector of the output circuit may be connected and disconnected when connected live to a load, e.g. a weighing device.
 3. A load that can be connected to the power supply must - including connecting cable – have a maximum internal inductance of $\leq 10\mu\text{H}$ and a maximum internal capacitance of $\leq 213\text{nF}$.
- (18) Fundamental essential health and safety requirements
Fulfilled by the standards applied.

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