



(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 99ATEX3727**

(4) Equipment or protective system: **Supply unit, Type 230VAC-ID3sTx**

(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, 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. 93727.


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

EN 50014 : 1992 + prA1 EN 50019 : 1994 EN 50020 : 1994 EN 50028 : 1987

(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 and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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

 **II 2 G EEx me [ib] IIC T4**

Arnhem, 27 October 1999
by order of the Board of Directors of N.V. KEMA

C.M. Boschloo
Certification Manager

° This Certificate may only be reproduced in its entirety and without any change



SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 99ATEX3727

(15) **Description**

The Supply unit, Type 230VAC-ID3sTx provides an intrinsically safe output signal. The unit is housed in an aluminum enclosure and the electronic circuitry is completely encapsulated.

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

Electrical data

input circuit non intrinsically safe circuit, suitable for connection to electrical equipment with working voltages up to 264 V.
(E1, E3)

output circuit in type of explosion protection intrinsic safety
(terminals E4, E5) EEx ib IIC, with following maximum values:

$$\begin{aligned} U_o &= 12,65 \text{ V} \\ I_o &= 888 \text{ mA} \\ P_o &= 2,8 \text{ W} \end{aligned}$$

Maximum allowed external capacitance $C_o = 0,65 \mu\text{F}$
Maximum allowed external inductance $L_o = 23 \mu\text{H}$

The intrinsically safe output circuit is infallibly isolated from the non-intrinsically safe circuits up to a sum of peak voltages of 375 V.

Routine test

The transformer shall, before mounting into the apparatus, withstand per Clause 11.2 of EN 50020 - 1994 without breakdown the application of 2500 V between the primary and secondary winding.

(16) **Report**

No. 93727

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

Essential health and safety requirements not covered by standards listed at (9)	
Clause	Subject
1.0.5	Marking
1.0.6 (b)	Instructions

These essential health and safety requirements are examined and the results are laid down in the report listed at (16).

SCHEDULE

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(19) **Test documentation**

1. Certificate of Conformity KEMA No. Ex-97.D.1870

signed

2. Drawing No. 22003617 A3

01.07.1999

3. Samples