

(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 00ATEX8501 X**

(4) Equipment or protective system: **Terminal Boxes Type K-range**

(5) Manufacturer: **Weidmüller Interface GmbH & Co**

(6) Address: **Klingenbergrasse 16, 32758 Detmold, 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. 2079759.

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

EN 50014 : 1997
EN 50020 : 1994

EN 50019 : 2000
EN 50284 : 1999

(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 e II T6** or

 II 1 G **EEx ia IIC T6** or

 II 2(1) G **EEx e [ia] IIC T6**

Arnhem, 14 February 2005
KEMA Quality B.V.



T. Pijpker
Certification Manager

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SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 00ATEX8501 X

(15) **Description**

Terminal Boxes Type K-range with enclosures made of aluminum, for fixed installation, provided with terminals in type of protection increased safety "e", for non-intrinsically safe and/or intrinsically safe circuits.

The area intended for the terminals of intrinsically safe circuits is marked, e.g. in blue colour.

Ambient temperature range -30 °C ... +40 °C.

Electrical data

Rated voltage max. 1100 V

Rated current)

Number of conductors) as per Appendix Nos. 1 up to 20

Conductor cross section)

Installation instructions

The degree of ingress protection of at least IP 54 according to EN 60529 for use in potentially explosive atmospheres of flammable gases, vapours and mists is only achieved if certified cable entries are used that are suitable for the application and correctly installed.

For external earthing and bonding connection a cable lug shall be used so that the conductor is secured against loosening and twisting and that the contact pressure is permanently secured.

The instructions of the manufacturer shall be followed in order to ensure that after installation the creepage and clearance distances comply with the requirements of EN 50019 : 2000 and EN 50020 : 1994.

Routine tests

If factory wired, each terminal box shall be submitted to a dielectric strength test according to Clause 7.1 of EN 50019.

(16) **Report**

KEMA No. 2079759.

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

When the Terminal Boxes are used as Category 1 equipment, they shall be installed only in such a way that they are not subjected to impacts, in accordance with Clause 4.3.1 of EN 50284 : 1999.

(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 00ATEX8501 X**(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) and d)	Instructions

These Essential Health and Safety Requirements are examined and positively judged.
The results are laid down in the report listed at (16).

(19) Test documentation

As listed in Test Report No. 2079759.

AMENDMENT 1

to EC-Type Examination Certificate KEMA 00ATEX8501 X

Manufacturer: **Weidmüller Interface GmbH & Co.**Address: **Klingenbergstraße 16, 32758 Detmold, Germany****Description**

Terminal Boxes Type K-range, may also be manufactured in accordance with the test documentation specified below. The change concerns a new design of the enclosure.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 50281-1-1 : 1998 + A1.

The marking of the Enclosure shall include the following:

 II 2 GD EEx e II T6 / T3 T140 °C IP66 / IP67 or

 II 1 GD EEx ia IIC T6 / T3 T140 °C IP66 / IP67 or

 II 2(1) GD EEx e [ia] IIC T6 / T3 T140 °C IP66 / IP67

Ambient temperature range: -40 °C ... +80 °C with CR seal
-50 °C ... +135 °C with VMQ seal

The maximum surface temperature T140 °C is based upon an ambient temperature of 135 °C.

All other data remain unchanged.

Test documentation

1. Description (22 pages)

dated

2. Drawing no.	3 39331, issue E	29.09.2005
	4 37491, issue B	28.09.2005
	4 37492, issue B	29.09.2005
	4 37493, issue B	29.09.2005
	4 34716, issue A	27.10.2005

Arnhem, 28 October 2005
KEMA Quality B.V.



T. Pijpker
Certification Manager

AMENDMENT 2

to EC-Type Examination Certificate KEMA 00ATEX8501 X

Manufacturer: **Weidmüller Interface GmbH & Co.**Address: **Klingenbergstraße 16, 32758 Detmold, Germany****Description**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0 : 2004, EN 60079-7 : 2003, EN 60079-11 : 2004 and EN 60079-26 : 2004.

The marking of the Enclosure shall include the following:

 II 2 GD Ex e II T6 / T3 T140 °C IP66 / IP67 or

 II 1 GD Ex ia IIC T6 / T3 T140 °C IP66 / IP67 or

 II 2(1) GD Ex e [ia] IIC T6 / T3 T140 °C IP66 / IP67

Ambient temperature range: -40 °C ... +80 °C with CR seal
-50 °C ... +135 °C with VMQ seal

The maximum surface temperature T140 °C is based upon an ambient temperature of 135 °C.

All other data remain unchanged.

Test documentationdated

Drawing no.	4 37491, issue B	28.09.2005
	4 37492, issue B	29.09.2005
	4 37493, issue B	29.09.2005

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