


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

- (2) Components intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: **KEMA 99ATEX5514 U**
- (4) Components: **Feed Through Terminal Blocks Type ZDU 10 and ZDU 16, and Protective Conductor Terminal Blocks Type ZPE 10 and ZPE 16**
- (5) Applicant: **Weidmüller Interface GmbH & Co.**
- (6) Address: **Klingenbergstraße 16, 32758 Detmold, Germany**
- (7) These components and any acceptable variation thereto are 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 these components has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components 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. 95514.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 50014 : 1992 + prA1 EN 50019 : 1994 + prA1 EN 50281-1-1 : 1998**
- (10) The sign "U" placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination Certificate may be used as a basis for certification of an equipment or protective system.
- (11) This EC-Type Examination Certificate relates only to the design and construction of the specified components. If applicable, further requirements of this Directive apply to the manufacture and supply of these components.
- (12) The marking of the components shall include the following:

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Arnhem, 6 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

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## SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 99ATEX5514 U

(15) **Description**

Feed Through Terminal Blocks Type ZDU 10 and ZDU 16, and Protective Conductor Terminal Blocks Type ZPE 10 and ZPE 16, for the connection of copper conductors in enclosures in type of protection increased safety "e", insulating parts made of Wemid, with accessories (end plates, partitions, cross-connectors, end brackets, partitions and identification material) for fixing on mounting rail TS 35, according to EN 50022.

Operating temperature range -50 °C ... +100 °C.

### Electrical data

#### Feed Through Terminal Blocks

Type .....	<u>ZDU 10</u>	<u>ZDU 16</u>
Max. rated voltage .....	550 V	550 V
Rated current (at rated conductor cross section) .....	50 A	66 A
Rated conductor cross section mm <sup>2</sup> (AWG) ...	10 (8)	16 (6)
Max. conductor cross section mm <sup>2</sup> (AWG) .....	16 (6)	25 (4)
Min. conductor cross section mm <sup>2</sup> (AWG) .....	1,5 (16)	1,5 (16)

#### Protective Conductor Terminal Blocks

Type .....	<u>ZPE 10</u>	<u>ZPE 16</u>
Rated conductor cross section mm <sup>2</sup> (AWG) ...	10 (8)	16 (6)
Max. conductor cross section mm <sup>2</sup> (AWG) .....	16 (6)	25 (4)
Min. conductor cross section mm <sup>2</sup> (AWG) .....	1,5 (16)	1,5 (16)

### Mounting instructions

The Terminal Blocks are suitable for application in enclosures in atmospheres with combustible gases and combustible dust. For combustible gases these enclosures must satisfy the requirements according to EN 50014 and EN 50019. For combustible dust these enclosures must satisfy the requirements according to EN 50281-1-1.

In the combination of Feed Through Terminal Blocks with Protective Conductor Terminal Blocks of the same rated values, the applicable creepage distances and clearances according to EN 50019 are met.

In combination with other terminal block series and sizes and if other accessories are used the applicable creepage distances and clearances shall be met.

Regarding the use of end plates, partitions and end brackets the instructions of the manufacturer must be followed.

If smaller cross sections than the rated cross section are used, the belonging lower current has to be laid down in the EC-Type Examination Certificate of the complete apparatus.

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to EC-Type Examination Certificate KEMA 99ATEX5514 U

**Mounting instructions** (continued)

The Feed Through Terminal Blocks may be used, based on the self-heating when used at the above mentioned rated current and at ambient temperatures of -50 °C to +40 °C at the mounting position in electrical apparatus, e.g. junction and connection boxes, for temperature classes T6 and T5. When the Feed Through Terminal Blocks and Protective Conductor Terminal Blocks are used in electrical apparatus of temperature classes T1 up to T4, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.

**Routine test**

According to EN 50019, Clause 7.1.b in combination with Clause 6.1, a dielectric strength test has to be carried out.

(16) **Report**

No. 95514

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

None

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

Essential health and safety requirements not covered by standards listed at (9)	
Clause	Subject
1.0.6.b	Instructions for use

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

(19) **Test documentation**

1. Description (2 pages)		<u>signed</u> 15.09.1999/28.09.1999
2. Drawing No. 4 30101	)	
4 30102	)	
4 30103	)	24.08.1999
4 30104	)	
4 28144, issue 1	)	11.08.1999
4 28145	)	

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**Test documentation** (continued)

signed

Drawing Nr. 4 28039, issue 1	)
4 28040, issue 1	)
2 28139, issue 2	)
3 28072, issue 3	)
4 15292, issue 3	)
3 28140, issue 2	)
3 28075, issue 3	)
4 30056	)
3 30054	)
3 30055	)

11.08.1999

3. Samples

**to EC-Type Examination Certificate KEMA 99ATEX5514 U**

Manufacturer: **Weidmüller Interface GmbH & Co**

Address: **Klingenbergstrasse 16, 32758 Detmold, Germany**

**Description**

The routine dielectric strength tests according to EN 50019, clause 7.1.b may also be conducted using the method as laid down in document no. A\_10\_07.

All electrical data and mounting instructions remain unchanged.

**Report**

KEMA No. 2020770.

Arnhem, 19 September 2002  
KEMA Quality B.V.



L.M.J. Vries  
Certification Manager

**to EC-Type Examination Certificate KEMA 99ATEX5514 U****Manufacturer: Weidmüller Interface GmbH & Co****Address: Klängenbergstrasse 16, 32758 Detmold, Germany****Description**

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

The marking shall include the following:



All other data remain unchanged.

**Installation instructions**

The Feed Through Terminal Blocks and Protective Conductor Terminal Blocks are suitable for use in enclosures in atmospheres with flammable gases or combustible dust.

For flammable gases these enclosures must satisfy the requirements according to EN 50014 / EN 60079-0 and EN 50019 / EN 60079-7.

For combustible dust these enclosures must satisfy the requirements according to EN 50281-1-1 / EN 61241-0 and EN 61241-1.

**Routine tests**

The routine dielectric strength tests shall be performed according to EN 60079-7, clause 7.2 or according to the method as laid down in document no. A\_10\_07.

**Test documentation**

		<u>dated</u>
Drawing no.	3 28117, issue 6	17.10.2005
	4 28049, issue 5	17.10.2005
	4 28120, issue 6	17.10.2005
	4 28052, issue 6	17.10.2005

Arnhem, 13 December 2005

KEMA Quality B.V.



T. Pijpker  
Certification Manager