

# CERTIFICATE

## (1) EC-Type Examination

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

(3) EC-Type Examination Certificate Number: **KEMA 04ATEX2265 U** Issue Number: **3**

(4) Component: **Terminal Blocks Types RTP2,5, RTP4, RTP6, RTP10, RTP16, RTP25, RTP35, RTP50 and RTP95**

(5) Manufacturer: **Raad Manufacturing Co.**

(6) Address: **20th Ave., Azadegan Rd., Isfahan, Iran**

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

(8) DEKRA Certification 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 component 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. 207216700.

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

**EN 60079-0 : 2009**

**60079-7 : 2007**

(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, examination and tests of the specified component according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

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



**II 2 GD Ex e IIC Gb**

This certificate is issued on January 20, 2012 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

  
C.G van Es  
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 04ATEX2265 U**

Issue No. 3

(15) **Description**

The Terminal Blocks Types RTP2,5, RTP4, RTP6, RTP10, RTP16, RTP25, RTP35, RTP50 and RTP95 with accessories, insulation parts made of PA 6.6, are designed for interconnections of copper wires in enclosures in type of protection Ex e, Ex tD or Ex t. Fixing is made on mounting rails type G32 and TH 35 according to EN 60715.  
Operating temperature range: -40 °C to +80 °C.

**Electrical data**

Type	RTP2,5	RTP4	RTP6
Rated voltage [V]	500	500	500
Max. working voltage [V]	550	550	550
- during jumping over bridging [V]	440	440	550
- during neighbouring bridging [V] -with separation wall	440	440	550
Rated current [A]	26	34	44
- with bridge [A]	24	32	41
Rated cross-section [mm <sup>2</sup> ] (AWG)	2,5 (14)	4 (12)	6 (10)
Connectable conductor cross-section:			
- flexible [mm <sup>2</sup> ] (AWG)	0,5 – 2,5 (20 – 14)	0,5 – 4 (20 – 12)	0,5 – 6 (20 – 10)
- rigid [mm <sup>2</sup> ] (AWG)	0,5 – 4 (20 – 12)	0,5 – 6 (20 – 10)	0,5 – 10 (20 – 8)

Type	RTP10	RTP16	RTP25
Rated voltage [V]	500	630	630
Max. working voltage [V]	550	693	693
- during jumping over bridging [V]	550	440	440
- during neighbouring bridging [V] -without separation wall -with separation wall	110 550	137,5 550	137,5 550
Rated current [A]	58	80	104
- with bridge [A]	57	80	103
Rated cross-section [mm <sup>2</sup> ] (AWG)	10 (8)	16 (6)	25 (4)
Connectable conductor cross-section:			
- flexible [mm <sup>2</sup> ] (AWG)	0,5 – 10 (20 – 8)	0,5 – 16 (20 – 6)	0,5 – 25 (20 – 4)
- rigid [mm <sup>2</sup> ] (AWG)	0,5 – 16 (20 – 6)	0,5 – 16 (20 – 6)	0,5 – 25 (20 – 4)

(13) **SCHEDULE**

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Type	RTP35	RTP50	RTP95
Rated voltage [V]	630	800	750
Max. working voltage [V]	693	880	825
- during jumping over bridging [V]	440	550	--
- during neighbouring bridging [V]			
-without separation wall	220	220	352
-with separation wall	550	690	825
Rated current [A]	124	140	210
- with bridge [A]	114	132	200
Rated cross-section [mm <sup>2</sup> ] (AWG)	35 (2)	50 (0)	95 (000)
Connectable conductor cross-section:			
- flexible [mm <sup>2</sup> ] (AWG)	1,5 - 35 (14 - 2)	10 - 50 (8 - 0)	10 - 95 (8 - 000)
- rigid [mm <sup>2</sup> ] (AWG)	1,5 - 35 (14 - 2)	6 - 50 (10 - 0)	6 - 95 (10 - 000)

**Installation instructions**

The Terminal Blocks are suitable for use in enclosures in atmospheres with flammable gases and combustible dust. For flammable gases these enclosures must satisfy the requirements according to EN 60079-0 and EN 60079-7. For combustible dust these enclosures must satisfy the requirements according to EN 61241-0 and EN 61241-1 or EN 60079-0 and EN 60079-31.

When assembling with other certified series and sizes and when using belonging accessories, the required creepage distances and clearances have to be observed

Regarding the use of covers, cross-connectors (jumpers) and end brackets the instructions of the manufacturer must be followed.

If conductors with smaller cross sections as 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.

The terminal blocks may be used at ambient temperatures of -40 °C to +40 °C at the mounting position in electrical apparatus, e.g. junction and connection boxes, for temperature class T6. When the Terminal Blocks are used in electrical apparatus of temperature classes T1 up to T5, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.

(16) **Report**

No. 207216700

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

None.

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 04ATEX2265 U** Issue No. 3

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 207216700.