



[1] **EU – TYPE EXAMINATION CERTIFICATE**

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 19 ATEX 0002X** Issue: **1**

[4] Product: **Terminal box**

Type: **RK 01/...-**

[5] Manufacturer: **TEPEX d.o.o.**

[6] Product: **Medarska 69, 10090 Zagreb, Croatia**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 19 CR 002**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN IEC 60079-7:2015 / A1:2018** **EN 60079-11:2012**
EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

[10] The sign 'U' is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

[12] The marking of the product shall include the following:



II 2G Ex eb IIC T6 Gb
II 2G Ex ia/ib IIC T6 Gb

II 2D Ex tb IIIC T80°C Db

19.CRT.032

Date: 24.09.2019



Fiditas d.o.o.
ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.



[13]

SCHEDULE

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:**

FIDI 19 ATEX 0002X

[15] **Description of product**

Terminal boxes type RK 01/... consist of empty enclosures made in polyamide and are used for conductor connection up to 6 mm². Gasket between cover and enclosure is used to ensure degree of protection IP66. The terminal boxes are provided with 6 holes for cable entries where can be mounted cable glands and/or stopping plugs suitable for Ex eb / Ex tb type of protection.

The manufacturer can use the following cable glands and / or plugs:

- Cable gland type: SPU 25, manufacturer TEPEX Ltd., Croatia, FIDI 19ATEX0003X, II 2G Ex eb IIC Gb; II 2D Ex tb IIIC Db;
- Cable gland type: BM-SX6C, BM-X6C manufacturer BIMED, Turkey, IMQ 13ATEX010X, II 2G Ex eb IIC Gb; II 2D Ex tb IIIC Db;
- Cable gland type: SIB Ref. No. 4114269, manufacturer S.I.B. France, LCIE 05ATEX6146X, II 2G Ex eb IIC Gb; II 2D Ex tb IIIC Db;
- Plug type: SPC 25, manufacturer TEPEX Ltd., Croatia, FIDI 19ATEX0003X, II 2G Ex eb IIC Gb; II 2D Ex tb IIIC Db;
- Plug type: TP-X2C, manufacturer BIMED, Turkey, IMQ 13ATEX010X, II 2G Ex eb IIC Gb; II 2D Ex tb IIIC Db.

The terminal boxes are identified by the following code:

RK 01/ 1 2 3 - 4

Where positions marked means:

1 – Number of terminals

2 - Maximum terminal nominal cross section per terminal

3 - Nominal cross section

4 - „ExI“ for terminal box Intended for connection of ExI circuits

E: version with metal plate for connection metal cable glands for armoured cables to earthing system

2 – terminal box with terminals for three wires connection



Technical data:

Number of terminals inside of terminal box and permitted currents are given in the following table:

Type of terminal box	Number of terminal and cross section	Terminals	Rated Voltage [V]	Rated current [A]			
				T _{amax} 40°C	T _{amax} 50°C	T _{amax} 55°C	T _{amax} 70°C
RK 01/514	5 - 1 x 4 mm ²	Connectwell Industries CTS4UN	630	20	16	13	-
RK 01/514-2	5 - 1 x 4 mm ²	Connectwell Industries CMC1-2	630	20	16	13	-
RK 01/516	5 - 1 x 6 mm ²	Connectwell Industries CTS6UN	630	25	20	16	-
RK 01/514 Ex i	5 - 1 x 4 mm ²	Connectwell Industries CTS4UN	60	-	-	-	*1
RK 01/544	5 - 4 x 4 mm ²	TEPEX MT 45	630	22	18	14	-
RK 01/744	7 - 4 x 4 mm ²	TEPEX MT 47	630	22	18	14	-
RK 01/544-E	5 - 4 x 4 mm ²	TEPEX MT 45	630	22	18	14	-

* Value of current for 'Exi' version is related to intrinsically safe circuits protected by associated apparatus.

 Ambient temperature: -20°C to +55°C
 -40°C to +55°C
 -40°C to +70°C for "Ex i"

Mechanical protection: IP 66

Details of the electrical characteristics and size and position of the cable entries are specified in the user manual.

Warning label: "Warning: Do not open when energized"

[16] Confidential Report No. FIDI 19 CR 002

[16.1] Routine testing

None

[17] Specific Conditions of Use

- Cable glands type: SPU, manufacturer TEPEX; type: BM-.X6C, manufacturer BIMED and plug type: TP-X2C, manufacturer BIMED were tested with lower impact energy according to EN 60079-0, therefore terminal box with those cable glands and plugs has to be installed in places with lower risk of impact.
- Installed cable glands were tested with value of extraction force reduced to 25% and they are intended to be used only for fixed instalation, therefore the user shall provide additional clamping of the cable near cable gland.





[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical description of explosion proof terminal box type RK 01 / ...	-	-	12.09.2019.
Drawing of terminal box RK 01 / ...	T20.00.01.00-1	-	12.09.2019.
Drawing of terminal box RK 01 / 544 E	T20.00.01.00-2	-	12.09.2019.
Drawing of terminal box RK 01 / ...	T20.00.01.00-3	-	12.09.2019.
Drawing of terminals MT	T20.00.01.00-4	-	12.09.2019.
Description of certification drawings T20.00.01.00-1, T20.00.01.00-2, T20.00.01.00-3 and T20.00.01.00-4 of terminal box RK 01 / ...	-	-	12.09.2019.
Instructions for use of terminal box RK/...	TEPEX.RS.029	6	12.09.2019.