

TEPEX d.o.o. tel. 049 222 900 fax. 049 426 450 e-mail: tepex@tepex.hr www.tepex.hr	USER MANUAL FOR EXPLOSION PROTECTED TERMINAL BOX TYPE SKX 1008020-E		
	Number: TEPEX.RS.104	Rev : 1	Date: 08.2022.

CONTENT

1.	Manufacturer	1
2.	General safety informations	1
3.	Purpose	2
4.	Product compliance	2
5.	Degree of protection and technical data	2
6.	Type mark	3
7.	Mounting and dimensions	4
8.	Inspection, maintenance, repair and overhaul	5
9.	Spare parts and accessories	5
10.	Responsibility and authorization	5
11.	Storage and transport	6
12.	Manufacturer's warranty	6
13.	Marking	6

1. MANUFACTURER

TEP Ex d.o.o.
Prilaz dr. Franje Tuđmana 6
HR-49210 ZABOK
Tel: +385 49 222 900
Fax: +385 49 426 450
Web: www.tepex.hr

2. GENERAL SAFETY INFORMATION



WARNING!

The user manual contains basic information about the product. Mounting, installation, usage and maintenance should be carried out under this user manual to provide and ensure safe operation within the nominal characteristics. This user manual complement national Regulation and Standards. The responsible person shall ensure their implementation. Failure off implement this user manual can reduce explosion protection and endanger people, property and the environment. Any improper and illegal actions as well as non-compliance with the provisions of this user manual excludes all responsibility by manufacturer side.

Before installation/commissioning:

- Carefully read all instructions,
- Execute proper training of responsible personnel,
- Check that the contents of these instructions is fully understandable by the responsible personnel,
- Make sure that all the requirements and national Regulations as well as all special security measures are applied.

In lack of understanding:

- Contact the manufacturer.

During operation:

- Ensure that this user manual and other work instructions are available to the responsible staff at all times,
- Check the implementation of these instructions and all other safety user's instructions.

TEPEX d.o.o. tel. 049 222 900 fax. 049 426 450 e-mail: tepex@tepex.hr www.tepex.hr	USER MANUAL FOR EXPLOSION PROTECTED TERMINAL BOX TYPE SKX 1008020-E		
	Number: TEPEX.RS.104	Rev : 1	Date: 08.2022.

3. PURPOSE

Explosion protected terminal box, type SKX 1008020-E is intended for connection and distribution of conduits and cables in industrial areas with potentially explosive atmosphere Zones 1, 2, 21, 22 in accordance with EN 60079-10-1/-2: 2009. The quality of the materials ensures compliance with standard functionality in standard industrial atmosphere. For special requirements please contact the manufacturer.

4. PRODUCT COMPLIANCE

The product complies with standards:

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

The product has been developed, manufactured and tested according to the existing state of technique accordance with the standards EN ISO 9001, EN ISO 14001 and EN ISO / IEC 80079-34.

- The product is in compliance with the ATEX Directive 2014/34EU.
- The product is in compliance with the LV Directive 2014/35/EU.
- The product is in compliance with the RoHS Directive 2011/65/EU.
- The product is in compliance with EMC Directive 2014/30/EU.

5. DEGREE OF PROTECTION AND TECHNICAL DATA

Certificate:	FIDI 20 ATEX 0002
Mark:	
Category and explosion protection:	 II 2G Ex eb IIC T6 Gb II 2G Ex ia/ib IIC T6 Gb II 2D Ex tb IIIC T80°C Db
Ambient temperature:	-40°C ≤ Ta ≤ +50°C
Mechanical protection:	IP 65
Resistance to shock:	IK 09
Class of protection	I (PE - protective earthing))
Rated voltage :	to 630V AC
Maximum current:	according the data from the table from this manual
Output safety voltage U0for intrinsic safety circuits:	max. 60V
Output safety current I0for intrinsic safety circuits:	max. 1A
Terminals:	Typ: CTS4UN Manufacturer: Connectwell industries Pvt. Ltd., Indija Protection: II 2G Ex eb IIC Gb or Ex ib IIC Gb Certificate: SIRA 16 ATEX 3170U
Tightening torque for connection terminals:	0,5Nm
Isolation stripping length:	9mm
Allowed cable connection to connection terminal:	solid, stranded, flexible with ferrule DIN 46228 T1
Cable entries:	ISO 16 – ISO 63 according to EN 62444
Glands and plugs:	ATEX certified Ex e glands and plugs
PE terminal inside the enclosure:	Screw clamp M6 screw for cable crimping terminals DIN 46235
PE terminal outside the enclosure:	clamp 16mm2 tightening torque 3 Nm
Lid screws:	screw M5x35-A2 tightening Torque 3 Nm
Dimension:	1000 x 800 x 200 mm
Material of the enclosure:	Stainless steel 2mm 1.4404, X2CrNiMo17-12-2, AISI 316L

TEPEX d.o.o. tel. 049 222 900 fax. 049 426 450 e-mail: tepex@tepex.hr www.tepex.hr	USER MANUAL FOR EXPLOSION PROTECTED TERMINAL BOX TYPE SKX 1008020-E		
	Number: TEPEX.RS.104	Rev : 1	Date: 08.2022.

Maximum current table:

Terminal	Cable cross section	Maximum current	
		Ta ≤ +40°C	Ta ≤ +50°C
4mm ²	4mm ²	10A	8A
	2,5mm ²	8A	6A
	1,5mm ²	6A	5A
	1mm ²	5A	4A
	0,75mm ²	4,5A	3,5A

Tablica maksimalnog broja uvoda po stranici kućišta:

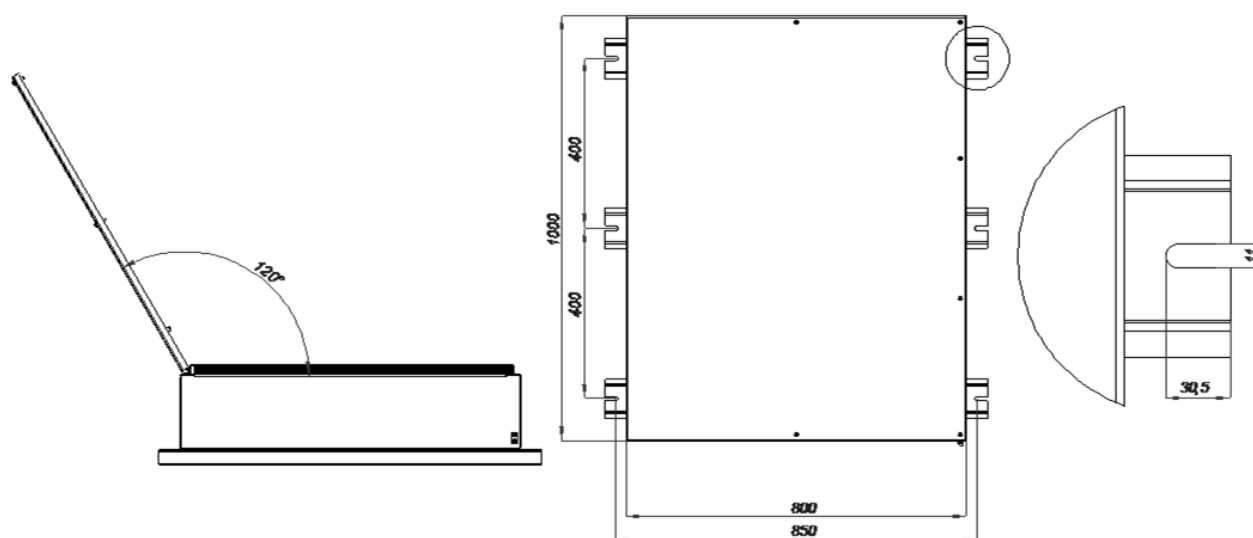
Enclosure side	Cable glands / entry						
	M16x1,5 Φ16,5(+0,2/-0,4)	M20x1,5 Φ20,5 (+0,2/-0,4)	M25x1,5 Φ25,5 (+0,2/-0,4)	M32x1,5 Φ32,5 (+0,2/-0,4)	M40x1,5 Φ40,5 (+0,2/-0,4)	M50x1,5 Φ50,5 (+0,2/-0,4)	M63x1,5 Φ63,5 (+0,2/-0,4)
A-C	80	48	36	20	14	8	6
B-D	106	60	48	28	22	10	8

6. TYPE MARK

SKX 1008020 - E

7. MOUNTING AND INSTALLATION

Mounting of terminal box is carried out with six bolts M10 according to next drawing:



The terminal box has the possibility of rotation over a hinge up to max. 120°.

8. INSPECTION, MAINTENANCE, REPAIR AND OVERHAUL

Inspections are carried out in accordance with IEC 60079-17:2007 / C 1: 2008, general and special conditions of manufacturer and users Regulations and includes inspection of parts on which the explosion protection depends, especially:

- that the housing, all parts of the housing, the cover and the cover seal are complete without cracks or damage, and that the cover screws are tightened to the nominal torque,
- that the terminal screws are tightened with rated torques,
- that the cable glands and plugs are installed according to the manufacturer's instructions and that the seals are undamaged and the compression nuts are tightened to the nominal torque.

In to the parts for maintenance and repair belongs all the parts provided by the manufacturer and indicated in the list of spare parts. All other procedures have the character of repair. All the repairs are performed by the manufacturer or the manufacturer's authorized personal and the original parts have to be provided according to the product documentation, all in accordance with EN 60079-19:2011.

Overhaul and modifications are not allowed.

If repair or any other procedure are performed on the product by unauthorized person, all producer responsibility for the product and the warranty and the manufacturer's declaration of conformity becomes invalid.

TEPEX d.o.o. tel. 049 222 900 fax. 049 426 450 e-mail: tepex@tepex.hr www.tepex.hr	USER MANUAL FOR EXPLOSION PROTECTED TERMINAL BOX TYPE SKX 1008020-E		
	Number: TEPEX.RS.104	Rev : 1	Date: 08.2022.

9. SPARE PARTS AND ACCESSORIES

- Enclosure gasket SKX 1008020
- II 2GD Ex eb / tb Cable gland M16 – M63
- II 2GD Ex eb / tb Plug M16 – M63
- II 2G Ex eb Terminal block - typ: CTS4UN Manufacturer: Connectwell Industries
- Lid screw – M5 x 35 – A2

10. RESPONSIBILITY AND AUTHORIZATION

This instruction is the basic information about the product. It is complementing with the corresponding national laws and regulations.

Production, use, certification and supervision are determined at the national level:

- Regulations concerning equipment and protective systems intended for use in potentially explosive atmospheres EU directive ATEX 2014/34/EU
- Regulations on minimum requirements for safety and health protection of workers and technical inspection of facilities, equipment, installations and equipment in hazardous areas EU directive 1999/92/EC (ATEX 137).

The responsible person shall ensure their implementation at the working facility

11. STORAGE AND TRANSPORT

Transportation and storage of the light fitting is only allowed in the original cardboard box.

14. MANUFACTURER'S WARRANTY

The manufacturer provides a Warranty on the product for a period of one year under the provisions of this User manual and the Law. This statement has the force of Warranty sheet.

15. MARKING

Terminal box SKX 1008020 - E is marked with the marking label with the technical data:



Marking label with the technical data (inside):

TEPEX Croatia, Zagreb, Medarska 69 Made in Croatia		SKX 1008020 - E 630V AC IP 65 -40°C ≤ T _{amb} ≤ +40°C / +50°C	
Terminal	Cross section		Current max.
			T _{amb} ≤ +40°C T _{amb} ≤ +50°C
	4mm ²		10A 8A
	2,5mm ²		8A 6A
	1,5mm ²		6A 5A
	1mm ²		5A 4A
		0,75mm ²	4,5A 3,5A
CE 0722 TEPEX II 2G Ex eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db FIDI 20 ATEX 0002 MR... DATUM... KK...			

