



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

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 19 ATEX 0053** Issue: **1**

[4] Product: **Control unit**
Type: **SKX 161/SRU...; SKX 181/SRU...; SKX 201-1/SRU...; SKX 201-2/SRU...**

[5] Manufacturer: **TEPEX Ltd.**

[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 053**

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

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015 / A1:2018
EN 60079-11:2012	EN 60079-18:2015 / A1:2017	EN 60079-31:2014

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

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[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 db eb ia/ib [ia] mb IIC T4...T6 Gb
II 2D Ex tb IIIC T80°C Db

Our ref.: 19.CRT.027

Date: 10.06.2020.



FIDITAS Ltd.
Certification department

Approved:

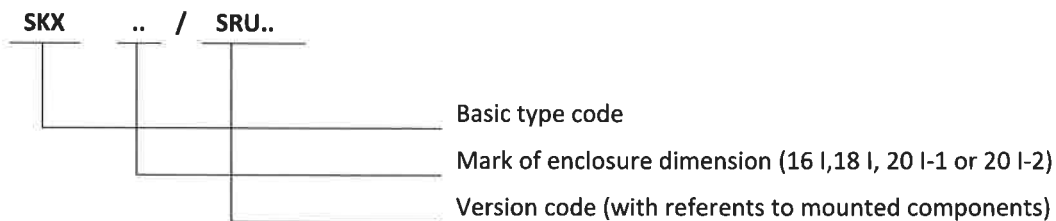
Marino Kelava, M.E.Eng.

[13] SCHEDULE
[14] EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 19 ATEX 0053
[15] Description of product

Control units consist of an metallic enclosure type MMK 302012, MMK 403016 and MMK 604016 (FIDI 19 ATEX 0023U; II 2G Ex eb IIC Gb; II 2G Ex ia/ib IIC Gb ; II 2D Ex tb IIIC Db) or metallic enclosure type SKX 1008020 (II 2G Ex eb IIC Gb; II 2G Ex ia/ib IIC Gb; II 2D Ex tb IIIC Db) and separately certified Ex components such as measuring and control devices, rotary switches, pushbuttons, indicator lamps, switches and intrinsically safe and non-intrinsically safe terminals and IS associated apparatus. Wirings of intrinsically safe circuits are marked in blue colour.

Separately certified cable glands in type of protection increased safety "eb" or protection by enclosure "tb" shall be used for cable entry.

Control units type SKX are identified by the following code:



Explosion protection marking for explosive atmospheres of flammable gases of each control unit have protection symbol „eb” and additionally symbol of explosion protections applied on installed Ex components, „db” and/or „ia/ib” and/or „mb” and/or „ [ia]”.

Technical data:

Insulation voltage U_i :	up to 690 V
Rated voltage U_e :	up to 690 V (depending on the installed equipment)
Current I_{th} :	up to 80 A
Ambient temperature:	-20°C to +50 °C
Mechanical protection:	IP 66 – SKX 16 I, SKX 18 I, SKX 20 I-1 IP 65 – SKX 20 I-2

Temperature class depends on nominal current I_{th} , conductor cross section and ambient temperature T_a .

Rated current I_{th} / conductor cross section	Temperature class	
	$T_{amax}= +40^{\circ}C$	$T_{amax}=+50^{\circ}C$
up to 16 A / $\geq 2,5 \text{ mm}^2$	T6	T6
up to 25 A / $\geq 4 \text{ mm}^2$	T6	T5
up to 35 A / $\geq 6 \text{ mm}^2$	T5	T4
up to 50 A / $\geq 10 \text{ mm}^2$	T5	T4
up to 63 A / $\geq 25 \text{ mm}^2$	T4	T4
up to 80 A / $\geq 35 \text{ mm}^2$	T4	T4

Rated values are maximum values, the actual electrical values are determined by built-in electrical devices. Within these limiting values, complying with the appropriate standards, the manufacturer specifies the final limiting values dependent on power supply specifications, operating mode, etc.

[16] Confidential Report No. FIDI 19 CR 053

[16.1] Routine testing

The manufacturer shall carry out routine test of dielectric strength on control units with internal wiring according to clause 7.1 of the standard EN IEC 60079-7.

[17] Specific Conditions of Use

None

[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 control units SKX 16 I, SKX 18 I, SKX 20 I	-	-	09.06.2020.
Certification drawings:			
Control units SKX 16 I, SKX 18 I, SKX 20 I - assembly lines type 1	T 31.01.01.00-1	-	09.06.2020.
Control units SKX 16 I, SKX 18 I, SKX 20 I - assembly lines type 2	T 31.01.01.00-2	-	09.06.2020.
Control units SKX 16 I - drilling enclosure	T 31.01.01.00-3	-	09.06.2020.
Control units SKX 18 I - drilling enclosure	T 31.01.01.00-4	-	09.06.2020.
Control units SKX 18 I - drilling enclosure	T 31.01.01.00-5	-	09.06.2020.
Control units SKX 18 I - drilling enclosure	T 31.01.01.00-6	-	09.06.2020.
Control units SKX 20 I - drilling enclosure	T 31.01.01.00-7	-	09.06.2020.
Control units SKX 20 I - drilling enclosure	T 31.01.01.00-8	-	09.06.2020.
Control units SKX 16 I, SKX 18 I, SKX 20 I-1	T 31.01.01.00-9	-	09.06.2020.
Control units SKX 16 I, SKX 18 I, SKX 20 I-1	T 31.01.01.00-10	-	09.06.2020.
Control units SKX 20 I-2	T 31.01.01.00-11	-	09.06.2020.
Bus-bar enclosure SKX 1008020 / SRU	T 51.07.00.00	-	28.02.2020.
Description of drawing T51.07.00.00	-	-	28.02.2020.
Instruction for use of control units type SKX 16 I, SKX 18 I, SKX 20 I	TEPEX.RS.066	1	09.06.2020.