



EU – TYPE EXAMINATION CERTIFICATE

[1]

[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 0050** Issue: **1**

[4] Product: **Grounding and grounding control device**

Type: **GGCD 01 / ...**

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

[6] Address: **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 050**

[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 mb [ib] IIC T5 Gb
II 2D Ex tb [ib] IIIC T80°C Db

Our ref.: 20.CRT.047

Date: 07.09.2020.



FIDITAS Ltd.
Certification department

Approved:

Marino Kelava, M.E.Eng.

[13] SCHEDULE
[14] EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 19 ATEX 0050
[15] Description of product

Grounding and grounding control device GGCD 01 with clamps for grounding is a device suitable to provide an active system for static grounding and grounding control. In 'eb' enclosure, type MMK 17/1, manufacturer TEPEX Ltd., (FIDI 19 ATEX 0009U; II 2G Ex eb IIC Gb; II 2D Ex tb IIIC Db; II 2G Ex ia/ib IIC Gb) following components are installed:

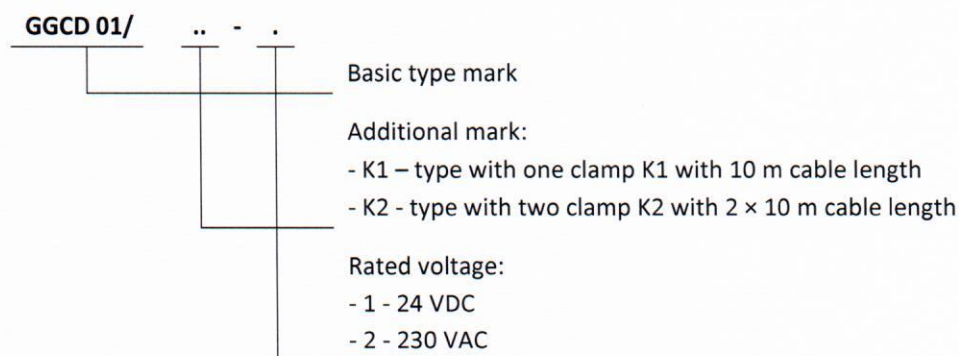
- Electronic module TEPEX Ltd., type GGCD 01, Ex mb [ib],
- Control switch TEPEX Ltd., type SMS 03/GGCD (FIDI 19 ATEX 0021U, II 2G Ex db eb IIC Gb) ,
- Two signal lamps TEPEX Ltd., type SLP (FIDI 19 ATEX 0012U, II 2G Ex db eb IIC Gb),
- Push button TEPEX Ltd., type PBT 02 (FIDI 19 ATEX 0001U, II 2G Ex db eb IIC Gb),
- terminals CONNECTWELL Industries Pvt. Ltd., type CTS4UN, CTS4UN/BU, CTS4UN/GN, CTS16UN/GN (SIRA 16 ATEX 3170U; II 2G Ex eb IIC Gb; II 2G Ex ib IIC Gb).

On the enclosure following Ex components are installed:

- rotary actuator TEPEX Ltd., type SMO17/GGCD (FIDI 19 ATEX 0016U; II 2G Ex eb IIC Gb; II 2D Ex tb IIIC Db),
- pushbutton actuator TEP Ex Ltd., type SPO 01/7 (FIDI 19 ATEX 0016U; II 2G Ex eb IIC Gb; II 2D Ex tb IIIC Db) and
- calotte of signal lamp TEP Ex Ltd., type SPO 02/1 and SPO 02/2 (FIDI 19 ATEX 0016U; II 2G Ex eb IIC Gb; II 2D Ex tb IIIC Db).

Clamps for grounding are connected to intrinsically safe terminals with connection cable. The grounding bracket for mounting the grounding clamps is an integral part of the product.

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

Marking:




Technical data

Rated voltage Un:	24 VDC 230 VAC, 50/60 Hz
Maximum safety voltage Um:	253 VAC
Rated current In:	150 mA at 24 V DC 18 mA at 230 V AC
Rated power Pn:	3,5 W at 24 V DC 4 VA at 230 V AC
Maximum grounding resistance:	10 Ω
Maximum length of the clamp cable:	50 m
Degree of mechanical protection:	IP 66
Ambient temperature:	-20°C to +50°C

[16] Confidential Report No. FIDI 19CR050

[16.1] Routine testing

The manufacturer shall carry out dielectric strength test of device in accordance with standards EN IEC 60079-7 and EN 60079-18.

[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 grounding and grounding control device type GGCD 01	/	/	04.09.2020.
Instruction for use o of grounding and grounding control device type: GGCD 01	TEPEX.RS.040	2	04.09.2020.
Description of drawings T30.81.01.00-1 to T30.81.01.00-15	/	/	04.09.2020.
Certification drawings:			
Grounding and grounding control device GGCD 01/K1	T 30.81.01.00-1	/	04.09.2020.





Title:	Drawing No.:	Rev. level:	Date:
Grounding and grounding control device GGCD 01/K2	T 30.81.01.00-2	/	04.09.2020.
Grounding and grounding control device GGCD 01/K1, GGCD 01/K2	T 30.81.01.00-3	/	04.09.2020.
Control switch GGCD 01/K1, GGCD 01/K2	T 30.81.01.00-4	/	04.09.2020.
Clamp K1 GGCD 01/K1	T 30.81.01.00-5	/	04.09.2020.
Clamp K2 GGCD 01/K2	T 30.81.01.00-6	/	04.09.2020.
Mounting of Cable GGCD 01/K1, GGCD 01/K2	T 30.81.01.00-7	/	04.09.2020.
Module GGCD 01	T 30.81.01.00-8	/	04.09.2020.
Electrical scheme GGCD 01/K1-1	T 30.81.01.00-9	/	04.09.2020.
Electrical schema GGCD 01/K1-2	T 30.81.01.00-10	/	04.09.2020.
Electrical scheme GGCD 01/K2-1	T 30.81.01.00-11	/	04.09.2020.
Electrical scheme GGCD 01/K2-2	T 30.81.01.00-12	/	04.09.2020.
Specification of electronic elements on PCB of GGCD	T 30.81.01.00-13	/	04.09.2020.
PCB assembly of GGCD 01	T 30.81.01.00-14	/	04.09.2020.
PCB of GGCD 01	T 30.81.01.00-15	/	04.09.2020.

