

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

0						
Ce	rtit	ıca	ıе	N	O	.:

IECEx BKI 15.0003

Issue No: 0

Certificate history:

Issue No. 0 (2015-03-23)

Status:

Current

Page 1 of 4

Date of Issue:

2015-03-23

Applicant:

TECHNOR ITALSMEA SPA

Via Italia, 33,

20060 Gessate (MI)

Italy

Electrical Apparatus:

Control stations and junction boxes GUB... series

Optional accessory:

GUB..., GUB-QL ..., GUB-../EMH-..

Type of Protection:

General requirements, Flameproof enclosures "d", Intrinsic safety "i", Dust ignition protection by

enclosure "t"

Marking:

Ex db IIC T6 or T5 or T4 Gb or Ex db [ia Ga] IIC T6 Gb or Ex db [ib] IIC T6 Gb and

Ex tb IIIC T85°C or T100°C or T135°C Db IP66 or Ex tb [ia Da] IIIC T85°C Db IP66 or Ex tb [ib] IIIC

T85°C Db IP66

T_{amb}: -60°C to +60°C or See details in point 5 of addendum to IECEx BKI 15.0003

Approved for issue on behalf of the IECEx

Certification Body:

János Müllner

Position:

Signature:

(for printed version)

managing director

Date:

2015-03-23

- 1. This certificate and schedule may only be reproduced in full.
- 2. This certificate is not transferable and remains the property of the issuing body.
- 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:



Certificate No:

IECEx BKI 15.0003

Issue No: 0

Date of Issue:

2015-03-23

Page 2 of 4

Testing Station for Explosion Proof Equipment H 1037 BUDAPEST MIKOVINY S.u. 2-4 Hungary





Certificate No:

IECEx BKI 15.0003

Issue No: 0

Date of Issue:

2015-03-23

Page 3 of 4

Manufacturer:

TECHNOR ITALSMEA SPA

Via Italia, 33,

20060 Gessate (MI)

Italy

Additional Manufacturing

location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0: 2011

Explosive atmospheres - Part 0: General requirements

Edition:6.0

IEC 60079-1: 2014-06

Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:7.0

IEC 60079-11: 2011

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:6.0

IEC 60079-31: 2013

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

Edition:2

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

HU/BKI/ExTR15.0003/00

Quality Assessment Report:

FR/INE/QAR08.0002/05



Certificate No:

IECEx BKI 15.0003

Issue No: 0

Date of Issue:

2015-03-23

Page 4 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Control stations, junction boxes and instrument housings GUB... series are constituted by enclosures with Ex db IIC mode of protection, complete of accessories (push buttons, selector switches, potentiometers, signal lamps, rotary handles, fuse, etc.) and containing electric and/or electronic equipment and terminals.

See details in addendum to IECEx Certificate of Conformity IECEx BKI 15.0003.

CONDITIONS OF CERTIFICATION: NO

Annex

Addendum to IECEx Certificate of Conformity IECEx BKI 15.0003.pdf



ADDENDUM TO IECEX CERTIFICATE OF CONFORMITY **IECEx BKI 15.0003**

Page 1 of 4

1. Description

Control stations, junction boxes and instrument housings GUB... series are constituted by enclosures with Ex db IIC mode of protection, complete of accessories (push buttons, selector switches, potentiometers, signal lamps, rotary handles, fuse, etc.) and containing electric and/or electronic equipment and terminals.

Lids of the GUB... series may be equipped with an inspection window made of tempered glass and cemented with adhesive/sealant.

Boxes are made of aluminum, carbon steel, OT58 brass or stainless steel (AISI 304; AISI 316; AISI 316L) with low content of copper and completed with threaded hubs suitable for cable glands or conduit.

The following devices can be mounted on the enclosures:

- breathing and draining device type ECR-1/ ECR-2 (see drawing AC1405-SH09)
- push buttons PL .. series (see drawing AC1405-SH10)
- pilot light type PLD (see drawing AC1405-SH11)
- rotary actuator type PSR-C (see drawing AC1405-SH12)
- rotary actuator type SRC-1 (see drawing AC1405-SH13)
- rotary actuator type SRC-10 (see drawing AC1405-SH14)
- reset device type PLC-R (see drawing AC1405-SH15)

2. Type assortment

2.1. Identification marks

	Enclosures series (threaded lid)
	Enclosure size *
GUB-QL #	
	Enclosures series (lid with accessories)
	Enclosure size *
GUB- # / EMH- ♡	
GUB- * / EMH- ⊙	Enclosures series
GUB- * / EMH- ⊙	Enclosures series Enclosure size #

- **(70; 140; 160; 175; 200; 230)**
- ***** (0;01;02;03;04;05;06)

3. Electrical data

Max. DC voltage: Max. AC voltage:

1000 V

20 kV

Nominal frequency:

According to the installed apparatus prescriptions

Maximum current terminal:

According to the installed apparatus prescriptions According to the installed apparatus prescriptions

Maximum peak current:

Maximum number of terminals: Nominal incandescent lamp power:

According to the dissipation tables ≤ 5 W

4. Mechanical data

Threading details and drilling limits of cable entries and blanking elements must comply with the manufacturer's documentation. See: AC1405 sheet 06.

ADDENDUM TO IECEX CERTIFICATE OF CONFORMITY IECEX BKI 15.0003

Page 2 of 4

5. Ambient temperature range and maximum dissipated powers

-60°C to +40°C

AMBIENT TEMPERATURE UP TO 40°C					
Enclosure type	Maximum dissipated powers (W)				
	Т6	Т5	T4		
GUB0	59	82	134		
GUB01; GUB-QL 01	85	117	191		
GUB02 ; GUB-QL 02	101	139	228		
GUB03; GUB-QL 03	126	174	285		
GUB04 ; GUB-QL 04	186	256	419		
GUB05 ; GUB-QL 05	221	304	498		
GUB06 ; GUB-QL 06	304	418	685		
ЕМН160	99	136	223		
EMH175	154	213	348		
ЕМН200	182	251	411		
ЕМН230	252	346	567		

-60°C to +50°C

AMBIENT TEMPERATURE UP TO 50°C				
Englassis	Maximum dissipated powers (W)			
Enclosure type	Т6	Т5	T4	
GUB0	44	67	119	
GUB01; GUB-QL 01	63	95	170	
GUB02 ; GUB-QL 02	76	114	202	
GUB03; GUB-QL 03	95	142	253	
GUB04 ; GUB-QL 04	139	209	373	
GUB05; GUB-QL 05	166	249	443	
GUB06; GUB-QL 06	228	342	609	
EMH160	74	111	198	
EMH175	116	174	309	
EMH200	137	205	365	
ЕМН230	189	283	504	

-60°C to +55°C

AMBIENT TEMPERATURE UP TO 55°C				
Englasmatona	Maximum dissipated powers (W)			
Enclosure type	Т6	Т5	T4	
GUB0	37	59	111	
GUB01; GUB-QL 01	53	85	159	
GUB02 ; GUB-QL 02	63	101	190	
GUB03; GUB-QL 03	79	126	237	
GUB04 ; GUB-QL 04	116	186	349	
GUB05 ; GUB-QL 05	138	221	415	
GUB06; GUB-QL 06	190	304	570	
EMH160	62	99	186	
EMH175	96	154	290	
ЕМН200	114	182	342	
EMH230	157	252	473	



ADDENDUM TO IECEX CERTIFICATE OF CONFORMITY IECEX BKI 15.0003

Page 3 of 4

-60°C to +60°C

AMBIENT TEMPERATURE UP TO 60°C				
F 1	Ma	W)		
Enclosure type	Т6	Т5	T4	
GUB0	29	52	104	
GUB01; GUB-QL 01	42	74	149	
GUB02 ; GUB-QL 02	50	88	177	
GUB03 ; GUB-QL 03	63	111	222	
GUB04 ; GUB-QL 04	93	163	326	
GUB05 ; GUB-QL 05	110	193	387	
GUB06 ; GUB-QL 06	152	266	532	
ЕМН160	49	86	173	
EMH175	77	135	271	
EMH200	91	159	319	
ЕМН230	126	220	441	

6. Ingress protection

IP66

7. Warning

- WARNING! Do not open when energized.

8. Routine examinations and tests

8.1 Control stations, junction boxes and instrument housings GUB... series intended for use in ambient temperature range -20°C...+60°C

According to chapter 16.6 of standard IEC 60079-1, the enclosure type GUB... series must be subjected to batch testing in view of the fact that it passed the 3 times reference pressure type test according to the chapter 15.2.3.2.

The pressure values for the bath test are the followings:

	Reference pressure value	Batch test pressure value	
		(1,5 times the reference pressure)	
GUB	8,2 bar	12,3 bar	
GUB-QL	8,4 bar	12,6 bar	
GUB / EMH	8,16 bar	12,24 bar	

8.2 Control stations, junction boxes and instrument housings GUB... series intended for use in lower ambient temperature range than -20°C

In accordance with the clause 16.1 of standard IEC 60079-1, each sample of the equipment must be subjected successfully an overpressure test (1,5 times reference pressure) between 10 and 60 seconds under 15 bar.



ADDENDUM TO IECEX CERTIFICATE OF CONFORMITY IECEX BKI 15.0003

Page 4 of 4

7. Manufacturer's Documents

Title:	Drawing No.:	Rev. Level:	Date:
Technical note	TN 1405	0	2015.03.06
Instructions notice	TN 1405 Annex A	0	2015.01.28
Typical assembling of transparent part, made by tempered glass, on cover of GUB/EMH enclosures	AC1405-SH01	0	2015.03.06
Enclosures GUB QL	AC1405-SH02	0	2015.03.06
Enclosures GUB series	AC1405-SH03	0	2015.03.06
Machined cover enclosure GUB-06	AC1405-SH04	0	2015.01.29
GUB enclosures drilling limits	AC1405-SH06	0	2015.01.29
GUB enclosures - label space	AC1405-SH07	0	2015.01.29
Breathing / Draining device type ECR-1 / ECR-2	AC1405-SH09	0	2015.01.29
Push buttons PL series	AC1405-SH10	0	2015.01.29
Pilot light type PLD	AC1405-SH11	0	2015.01.29
Rotary actuator type PSR-C	AC1405-SH12	0	2015.01.29
Rotary actuator type SRC-1	AC1405-SH13	0	2015.01.29
Rotary actuator type SRC-10	AC1405-SH14	0	2015.01.29
Reset device type PLC-R	AC1405-SH15	0	2015.01.29
Grounding / bounding terminals - Details	AC1405-SH16	0	2015.01.29
Dataplate Marking	AC1405-SH17	0	2015.01.29
Aluminium alloy	EN AC 46100	0	2010.11.23
Data sheet of Sealant	-	2.7	2013.05.17