



## EC-Type Examination Certificate

- (1)  
(2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 94/9/EC)**

(3) EC-Type Examination Certificate Number:

**FTZÚ 14 ATEX 0088X**

- (4) Equipment: **Instrument and terminal boxes  
type series: R.....; RI.....; RJ.....; RO.....; ROI.....; ROJ.....; SRI.....; SROI.....; EMH90..**
- (5) Manufacturer: **RIBCO s.r.l.**
- (6) Address: **VIA DEI MILLE, 12-20061 – CARUGATE (MI), Italy**

(7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°:


**14/0088 dated 04.08.2014**


(9) Compliance with Essential Health and Safety Requirements has been assured by compliance with  
**EN 60079-0:2012      EN 60079-1:2007      EN 60079-31:2009**


(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and testing of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

 **II 2G Ex d IIC T6 ... T4 Gb**

 **II 2D Ex tb IIIC T85°C ... T135°C Db**

 **I M2 Ex d I Mb**

This EC-Type Examination Certificate is valid till: **04.08.2019**

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 04.08.2014

Page: 1/3  
Annex No. 1 (4 pages)

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Physical Technical Testing Institute  
Ostrava – Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 14 ATEX 0088X**

(15) Description of Equipment:

The equipment enclosures are separately certified as component, certificate FTZÚ 13 ATEX 0201U.

The instruments enclosures or terminal boxes types R....; RI....; RJ....; RO....; ROI....; ROJ....; SRI....; SROI....; EMH90.. are aluminium, brass or stainless steel enclosures with threaded cover with or without sight glass. Enclosures can be alternatively prolonged by threaded extension. Extension and cover are locked by screws with hex socket and are sealed with o-rings. Enclosures are equipped with 1 to 5 NPT or Metric threaded holes. Appropriate certify cable glands for direct entry have to be used.

The enclosures contain various electrical apparatus or terminals blocks.

Enclosures with silicon o-rings are suitable for ambient temperature from -50°C and for max. surface temperatures T85°C ... T135°C.

Enclosures with EPDM o-rings are suitable for ambient temperature from -40°C C and for max. surface temperatures T85°C ... T100°C.

Enclosures types RI....; RJ....; ROI....; ROJ....; SRI....; SROI.... are equipment group I. and II.

Enclosures types R....; RO....; EMH90.. are equipment group II.

**Technical specification:**

Degree of protection: IP66

Max. rated voltage: 660Vac / 440Vdc

Max. rated current: 109A

Max. rated cross section: 35mm<sup>2</sup>

Range of ambient temperature: -50°C to +40°C or +50°C or +60°C or +70°C or +85°C

-40°C to +40°C or +50°C or +60°C or +70°C or +85°C

Power dissipations, temperature class, max. surface temperature and max. ambient temperatures are determined in table No. 1.

(16) Report No.: 14/0088

(17) Special conditions for safe use:

17.1 Mechanical resistance for types RJ..., ROJ... matches to low risk of mechanical danger, for equipment group I.

17.2 Equipment must be installed to avoid a risk from propagating brush discharges.

(18) Essential Health and Safety Requirements:

They are included in standards, which are mentioned in clause (9) of this certificate. The product was approved in accordance with above mentioned standards.

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 04.08.2014

Page: 2/3

Annex No. 1 (4 pages)

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tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz



Physical Technical Testing Institute  
Ostrava – Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 14 ATEX 0088X**

(19) List of Documentation:

<i>Drawing No.:</i>	<i>Date:</i>
IS-ROI-00 Rev.0	10.07.2014
IS-EMH-00 Rev.0	10.07.2014
IS-RO-00 Rev.0	10.07.2014
1049 Rev.0	10.07.2014
1050 Rev.0	10.07.2014
1051 Rev.0	10.07.2014
1052 Rev.0	10.07.2014
1053 Rev.0	10.07.2014
1054 Rev.0	10.07.2014
1055 Rev.0	10.07.2014
RPT-PWR-00	10.07.2014

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 04.08.2014

Page: 3/3  
Annex No. 1 (4 pages)

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tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz



## ANNEX No. 1

### to EC-Type Examination Certificate N° FTZÚ 14 ATEX 0088X

Type designation of instrument enclosures:

(a) (b) (c) (d) (e)

- (a) – Type: R\* Aluminium enclosure without sight glass  
R\*I stainless steel enclosure without sight glass;  
R\*J brass enclosure without sight glass  
RO\* Aluminium enclosure with sight glass  
RO\*I stainless steel enclosure with sight glass;  
RO\*J brass enclosure with sight glass  
SR\*I stainless steel enclosure without sight glass, with soldered threaded hole  
SRO\*I stainless steel enclosure with sight glass, with soldered threaded hole

\* Number and position of threaded holes – A; B; C; L; D;M;T;W;X,XA

(b) – Dimension of cable entries

1 – 1/2" NPT	20 – M20x1.5
2 – 3/4" NPT	25 – M25x1.5
3 – 1" NPT	32 – M32x1.5
4 – 1 1/4" NPT	40 – M40x1.5
5 – 1 1/2" NPT	50 – M50x1.5
6 – 2" NPT	63 – M63x1.5
K – Mixed	

(c) - Size of the enclosure – 4; 6; 6A; 7; 8; 9

(d) - Internal height of enclosure.

(e) – Model of electrical equipment installed.

Type designation of instrument enclosure type EMH90..:

EMH90 (a) (b)

(a)- Dimension of cable entry:

N – 3/4" NPT

M – M25x1,5

(b)– Model of electrical equipment installed.

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Date of issue: 04.08.2014

Page: 1/4

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**ANNEX No. 1**

**to EC-Type Examination Certificate N° FTZÚ 14 ATEX 0088X**

Type designation of terminal boxes:

(a) (b) (c) (d) (e)

- (a) – Type: R\* Aluminium enclosure without sight glass  
R\*I stainless steel enclosure without sight glass;  
R\*J brass enclosure without sight glass  
SR\*I stainless steel enclosure without sight glass, with soldered threaded hole

\* Number and position of threaded holes – A; B; C; L; D;M;T;W;X;XA

(b) – Dimension of cable entries

1 – 1/2" NPT	20 – M20x1.5
2 – 3/4" NPT	25 – M25x1.5
3 – 1" NPT	32 – M32x1.5
4 – 1.1/4" NPT	40 – M40x1.5
5 – 1.1/2" NPT	50 – M50x1.5
6 – 2" NPT	63 – M63x1.5
K – Mixed	

(c) - Size of the enclosure – 4; 6; 6A; 7; 8; 9

(d) – code of terminal installed

(e) – Max No. of terminals

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of certification body



Date of issue: 04.08.2014

Page: 2/4

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**ANNEX No. 1**

to EC-Type Examination Certificate N° FTZÚ 14 ATEX 0088X

Table No. 1:

Type of enclosure	Max. ambient temperature	Max. power dissipation	Temperature class Equipment group II	Maximum surface temperature Equipment group III	Cable entry point temperature for max. power dissipation
R...4.	40°C	7,5 W	T6	T85°C	80°C
	50°C	5,5 W			
	60°C	3 W			
	70°C	1 W			
	40°C	11 W	T5	T100°C	95°C
	50°C	8,5 W			
	60°C	6 W			
	70°C	4,5 W			
	85°C	1 W	T4	T135°C	130°C
	40°C	19,5 W			
	50°C	17 W			
	60°C	14 W			
70°C	12 W				
85°C	8,5 W	R...6/6A.	T6	T85°C	80°C
40°C	8 W				
50°C	5,5 W				
60°C	3 W				
70°C	1 W		T5	T100°C	95°C
40°C	11,5 W				
50°C	9 W				
60°C	6,5 W				
70°C	4,5 W		T4	T135°C	130°C
85°C	1 W				
40°C	20,5 W				
50°C	18 W				
60°C	15 W				
70°C	12,5 W	R...7.	T6	T85°C	80°C
85°C	9 W				
40°C	10 W				
50°C	7 W				
60°C	4 W		T5	T100°C	95°C
70°C	1,5 W				
40°C	15 W				
50°C	11,5 W				
60°C	8,5 W		T4	T135°C	130°C
70°C	5 W				
85°C	1,5 W				
40°C	30 W				
50°C	26 W				
60°C	21 W				
70°C	17 W				
85°C	11,5 W				

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of certification body



Date of issue: 04.08.2014

Page: 3/4

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**ANNEX No. 1**

**to EC-Type Examination Certificate N° FTZÚ 14 ATEX 0088X**

Type of enclosure	Max. ambient temperature	Max. power dissipation	Temperature class Equipment group II	Maximum surface temperature Equipment group III	Cable entry point temperature for max. power dissipation
R...8. / EMH90.	40°C	11 W	T6	T85°C	80°C
	50°C	7,5 W			
	60°C	4,5 W			
	70°C	2 W			
	40°C	16 W	T5	T100°C	95°C
	50°C	12,5 W			
	60°C	9 W			
	70°C	6 W			
	85°C	2 W	T4	T135°C	130°C
	40°C	31 W			
	50°C	27 W			
	60°C	22 W			
70°C	18 W				
85°C	12,5 W				
R...9.	40°C	14 W	T6	T85°C	80°C
	50°C	10 W			
	60°C	6 W			
	70°C	2,5 W			
	40°C	21 W	T5	T100°C	95°C
	50°C	16 W			
	60°C	12 W			
	70°C	8 W			
	85°C	2,5 W	T4	T135°C	130°C
	40°C	42 W			
	50°C	35 W			
	60°C	29 W			
70°C	24 W				
85°C	16 W				

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of certification body



Date of issue: 04.08.2014

Page: 4/4

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(1) **Supplementary EU - Type Examination Certificate No.1**

(2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

**FTZÚ 14 ATEX 0088X**

(4) Product: **Instrument and terminal boxes  
type series: R....; RI....; RJ....; RO....; ROI....; ROJ....; SRI....; SROI....; EMH90..**

(5) Manufacturer: **RIBCO s.r.l.**

(6) Address: **VIA DEI MILLE, 12-20061 – CARUGATE (MI), Italy**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 14 ATEX 0088X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, 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 to the Directive.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018; EN 60079-1:2014; EN 60079-31:2014**

(11) The marking of the product shall include the following:

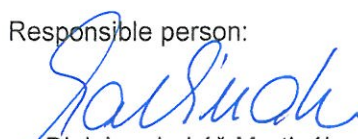
 **II 2G Ex db IIC T6 ... T4 Gb**

 **II 2D Ex tb IIIC T85°C ... T135°C Db**

 **I M2 Ex db I Mb**

(12) This certificate is valid till: **24.01.2025**

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 24.01.2020

Page: 1/3

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Physical-Technical Testing Institute  
Ostrava - Radvanice

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 1  
to FTZÚ 14 ATEX 0088X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- prolongation of certificate validity;
- documentation updating;
- evaluation of the product according to the standards: EN IEC 60079-0:2018, EN 60079-1:2014 and EN 60079-31:2014;
- equipment Ex marking is changed from "d" to "db" according to EN 60079-1:2014;
- specific condition of use updating.

Technical parameters and construction of the product remain unchanged.

(16) Report number.: 14/0088/1 dated 24.01.2020

(17) Specific Conditions of Use:

1. Mechanical resistance for types RJ..., ROJ... matches to low risk of mechanical danger, for equipment group I.
2. Equipment must be installed so way to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
3. Temperature class, maximum surface temperature and ambient temperature range are given on the product marking plate.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 24.01.2020

Page: 2/3

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(13)

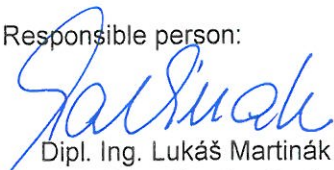
Schedule

(14) **Supplementary EU - Type Examination Certificate No. 1  
to FTZÚ 14 ATEX 0088X**

(19) Drawings and Documents:

Number	Sheets	Issue	Date	Description
IS-EMH-00	1	1	17.09.2019	Manual
IS-RO-00	2	1	17.09.2019	Manual
IS-ROI-01	2	1	17.09.2019	Manual
1053	1	1	17.09.2019	Drawing
1055	2	1	17.09.2019	Drawing

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 24.01.2020

Page: 3/3



(1) **Supplementary EU - Type Examination Certificate No.2**

(2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

**FTZÚ 14 ATEX 0088X**

(4) Product: **Instrument and terminal boxes  
type series: R....; RI....; RJ....; RO....; ROI....; ROJ....; SRI....; SROI....; EMH90..**

(5) Manufacturer: **RIBCO s.r.l.**

(6) Address: **VIA DEI MILLE, 12-20061 CARUGATE (MI), Italy**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 14 ATEX 0088X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.




(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, 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 to the Directive.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014**

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) The marking of the product shall include the following:

 **II 2G Ex db IIC T6 ... T4 Gb**  **II 2D Ex tb IIIC T85°C ... T135°C Db**  
 **I M2 Ex db I Mb**

(12) This certificate is valid till: **31.12.2029**

Responsible person:

*v z. Jgor*

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 17.12.2024

Page: 1/2

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**Physical-Technical Testing Institute  
Ostrava - Radvanice**

(13)

**Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 2  
to FTZÚ 14 ATEX 0088X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Extension of certificate validity.

The subject of this supplementary certificate is extension of certificate validity. The construction and electrical parameters of certified product remain unchanged.

(16) Report Number: 14/0088/2

(17) Specific Conditions of Use:

None additional to those listed previously.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Remain valid.

Responsible person:

*v z. Jgor*

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 17.12.2024

Page: 2/2