



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

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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: 35mm²

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:

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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

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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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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

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ANNEX No. 1

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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	R...7.	T6	T85°C	80°C
70°C	1,5 W				
40°C	15 W				
50°C	11,5 W				
60°C	8,5 W		T5	T100°C	95°C
70°C	5 W				
85°C	1,5 W				
40°C	30 W				
50°C	26 W		T4	T135°C	130°C
60°C	21 W				
70°C	17 W				
85°C	11,5 W				

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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	T6	T85°C	80°C	
85°C	12,5 W				
40°C	14 W				
50°C	10 W				
R...9.	60°C	6 W	T5	T100°C	95°C
	70°C	2,5 W			
	40°C	21 W			
	50°C	16 W			
	60°C	12 W	T4	T135°C	130°C
	70°C	8 W			
	85°C	2,5 W			
	40°C	42 W			
	50°C	35 W	T4	T135°C	130°C
	60°C	29 W			
	70°C	24 W			
	85°C	16 W			

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