



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEX FTZU 10.0002X	Issue No: 3	Certificate history:
Status:	Current	Page 1 of 4	Issue No. 3 (2014-09-19)
Date of Issue:	2014-09-19		Issue No. 2 (2011-08-23)
			Issue No. 1 (2010-07-22)
			Issue No. 0 (2010-01-21)
Applicant:	ELSTA ELEKTRONIKA Sp. z o.o. S.K.A. ul. Janińska 32 32-020 Wieliczka Poland		
Electrical Apparatus:	Radio remote controller PR-2000/* (PR-2000/MF, PR-2000/ME, PR-2000/MI)		
Optional accessory:			
Type of Protection:	Intrinsic safety		
Marking:	Ex ia I Ma		

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of the Certification Body

Signature:
(for printed version)

Date:


2014-09-19

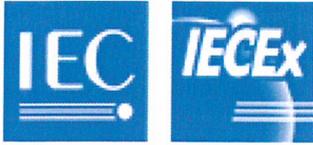


1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Fyzikálně technický zkušební ústav
(Physical -Technical Testing Institute)
Pikartská 7
71607 Ostrava - Radvanice
Czech Republic





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Manufacturer: ELSTA ELEKTRONIKA Sp. z o.o. S.K.A.
ul. Janińska 32
32-020 Wieliczka
Poland

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 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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:

CZ/FTZU/ExTR10.0002/00 CZ/FTZU/ExTR10.0002/01 CZ/FTZU/ExTR10.0002/02
CZ/FTZU/ExTR10.0002/03

Quality Assessment Report:

PL/KDB/QAR14.0001/00





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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The radio remote controller PR-2000/* is a part of remote control of machine. It consists of electronics, housing with membrane key board and contacts for battery module and an antenna connectors.

Pins PR-2000/MF:

BATT+, BATT-, TR: $U_i = 5,2 \text{ V}$, $I_i = 6,15 \text{ A}$; $P_i = 4,7 \text{ W}$; $L_i = 12 \text{ } \mu\text{H}$; $C_i = 180 \text{ } \mu\text{F}$

Antenna connector XA: $U_o = 7,2 \text{ V}$; $I_o = 3,6 \text{ A}$; $P_o = 2,8 \text{ W}$; $L_o = 30 \text{ } \mu\text{H}$; $C_o = 26 \text{ } \mu\text{F}$

Pins PR-2000/ME, PR-2000/MI:

BATT+, BATT-: $U_i = 6,0 \text{ V}$, $I_i = 6,15 \text{ A}$; $P_i = 2,79 \text{ W}$; $L_i = 12 \text{ } \mu\text{H}$; $C_i = 180 \text{ } \mu\text{F}$

BATT-, TR: $U_i = 5,2 \text{ V}$, $I_i = 6,15 \text{ A}$; $P_i = 4,7 \text{ W}$; $L_i = 0 \text{ } \mu\text{H}$; $C_i = 0 \text{ } \mu\text{F}$

Antenna connector XA: $U_o = 7,2 \text{ V}$; $I_o = 3,6 \text{ A}$; $P_o = 2,8 \text{ W}$; $L_o = 30 \text{ } \mu\text{H}$; $C_o = 26 \text{ } \mu\text{F}$

Ambient temperature: T_a from 0°C to 50°C .

CONDITIONS OF CERTIFICATION: YES as shown below:

The charging of intrinsically safe battery type HBIS-2000 and type HBIS-2010 is only possible in non-hazardous area.





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Changes of the equipment for issue 3:

Redesigned the power supply circuit of the LCD display (ELS-319.2.01/07 rev 1/4),

Adding the possibility of using alternative electronics packages PRS 03, ERM 02 (ELS-319.2.01/07 rev 1/4),
trade mark of manufacturer on the frame , (EE-050/1.5/1.0 rev 1/5),

The Intrinsically safe Radio remote controller type PR-2000/* is verified according to new standards IEC 60079-0:2011, 6th Edition and IEC 60079-11:2011, 6th Edition.

Intrinsically safe parameters remain unchanged.

The ownership rights were transferred from ELSTA Sp. z o.o. to ELSTA ELEKTRONIKA

Sp. z o.o. S.K.A. Therefore, the official manufacturer of the said equipment is

ELSTA ELEKTRONIKA Sp. z o.o. S.K.A.

The Technical documentation EE-050/1.5/1.0 rev 1.5 updated 02/2014 and ELS-3129.2.01/07 rev.1/4 dated 02/2012.

