



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 09.0025X	Issue No: 2	<u>Certificate history:</u> Issue No. 2 (2014-11-11) Issue No. 1 (2011-11-07) Issue No. 0 (2009-11-09)
Status:	Current	Page 1 of 4	
Date of Issue:	2014-11-11		
Applicant:	ELSTA ELEKTRONIKA Sp. z o.o. S.K.A. ul. Janińska 32 32-020 Wieliczka Poland		
Electrical Apparatus: <i>Optional accessory:</i>	Cable remote controller PW-2000/*		
Type of Protection:	Intrinsic safety Ex Ib I		
Marking:	Ex ib I Mb		

*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:

2014-11-11

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 zkusební 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/ExTR09.0025/00](#) [CZ/FTZU/ExTR09.0025/01](#) [CZ/FTZU/ExTR09.0025/02](#)

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 cable remote controller PW-2000/* is a part of remote control of machine. It consists of electronics casing with membrane keyboard and connector for power cable and communication line. It is manufactured in four variants /MF, /FI, /FT and /HD.

Maximum input parameters: PW-2000/MF

Connector pins XS1: VCC+, VCC-, CANL, CANH or CAN_SHIELD $U_i = 13,7$ V; $I_i = 1,8$ A; $P_i = 25$ W; $L_i = 25$ μ H; $C_i = 0$ Pins: VCC-, CANL, CANH or CAN_SHIELD $U_o = 6,6$ V; $I_o = 1,8$ A; $P_o = 3,7$ W; $L_o = 120$ μ H; $C_o = 1000$ μ F

PW-2000/FT and PW-2000/FI

Connector pins XS1: VCC+, VCC-, CANL, CANH, CAN_SHIELD and CONFIG_AB: $U_i = 13,7$ V; $L_i = 10$ μ H; $C_i = 2$ μ F Pins: VCC-, CANL, CANH, CAN_SHIELD $U_o = 6,6$ V; $I_o = I_{o-zas}$; $P_o = 3,6$ W; $L_o = L_{o-zas} - 10$ μ H; $C_o = 100$ μ F I_{o-zas} and L_{o-zas} are parameters of source applied in the application.

PW-2000/HD

Connector pins : VCC+, VCC-, CANL, CANH, TERM_EN: $U_i = 13,7$ V; $I_i = 1,67$ A; $L_i = 1$ μ H; $C_i = 23$ nF

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

Instruction for use -see document No. EE-054/2.0/1.1

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The equipment must be earthed during the use through operator
2. The controller must be placed in grounded place after completion of the work



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

For Issue No.2:

Verification according to new standards edition.
Change of the manufacturer name.
Addition of the new version PW-2000/HD.