



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 09.0025** issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2009-11-09** Page 1 of 3

Applicant: **ELSTA Sp. z o.o.**
ul. Janińska 32
32-020 Wieliczka
Poland

Electrical Apparatus: **Cable remote controller PW-2000/***
Optional accessory:

Type of Protection: **Intrinsic safety Ex ib I**

Marking: **Ex ib I**

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Ing. Jaroslav Šindler

Position:

Head of the Certification Body

Signature:
(for printed version)

Date:

2009-11-09



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 Sp. z o.o.**
ul. Janińska 32
32-020 Wieliczka
Poland

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 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0
IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
Edition: 5

*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

Quality Assessment Report:

CZ/FTZU/QAR09.0003/00



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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 key board and connector for power cable and communication line. It is manufactured in two variants /MF and /FT.

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 $U_o = 6,8$ V; $I_o = 1,8$ A; $P_o = 3,7$ W; $L_o = 120$ μ H; $C_o = 1000$ μ F

PW-2000/FT

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.

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

Instruction for use -see document No. ELS-320.3.01/07

CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.

IECEx Technical Report: CZ/FTZU/ExTR09.0025/00 details

ExTR :	
ExTR Reference Number*: (automatic numbering)	CZ/FTZU/ExTR09.0025/00
Status*:	Issued
ExTR Free Reference Number*:	CZ/FTZU/09.0012/00
Date of Issue*: (yyyy-mm-dd)	2009-11-02
List of Standards Covered*:	IEC 60079-0 (Ed.4.0); IEC 60079-11 (Ed.5)
Issuing ExTL*:	FTZU - Fyzikalne technicky zkusebni ustav
Endorsing ExCB*:	FTZU - Fyzikalne technicky zkusebni ustav
Manufacturer*:	ELSTA Sp. z o.o. ul. Janińska 32 32-020 Wieliczka
Country of Manufacture*:	Poland
Ex Protection*:	Intrinsic safety Ex ib I
Ratings:	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 $U_o = 6,8$ V; $l_o = 1,8$ A; $P_o = 3,7$ W; $L_o = 120$ μ H; $C_o = 1000$ μ F PW-2000/FT 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; $l_o = l_{o-zas}$; $P_o = 3,6$ W; $L_o = L_{o-zas} - 10$ μ H; $C_o = 100$ μ F l_{o-zas} and L_{o-zas} are parameters of source applied in the application. Ambient temperature: T_a from 0°C to 50°C
Product*:	Cable remote controller
Model Reference*:	PW-2000/*
Related IECEx Certificates:	IECEx FTZU 09.0025 issue: 0 [Current]
Comment:	The cable remote controller PW-2000/* is a part of remote control of machine. It consists of electronics casing with membrane key board and connector for power cable and communication line. It is manufactured in two variants /MF and /FT.
Attachment:	