Physical Technical Testing Institute

Ostrava-Radvanice

(1)

EC-Type Examination Certificate

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

(3) EC-Type Examination Certificate Number:

FTZÚ 09 ATEX 0160

(4) Equipment or protective system: **Telephone apparatus type [redacted]-4FP 153 32, 4FP 153 33 and Auxiliary handset type 4FN 615 09.2**

(5) Manufacturer: **TESLA Stropkov, a.s.**

(6) Address: **Hviezdoslavova 37/46, 091 12 Stropkov, Slovak Republic**

(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°

09/0160 dated September 2010

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

EN 60079-0:2009; ČSN EN 60079-7:2007; ČSN EN 60079-11:2007; ČSN EN 60079-18:2009; ČSN 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:

II2G Ex emb[ib] IIC T6 Gb
II2D Ex t IIIC T80°C, IP66 Db
I M2 Ex emb[ib] I M2

This EC-Type Examination Certificate is valid till: **September, 30th 2015**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 30.09.2010

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Physical Technical Testing Institute
Ostrava-Radvanice

(13) **Schedule**

(14) EC-Type Examination Certificate N° FTZÚ 09 ATEX 0160

(15) Description of Equipment or Protective System:

The telephone apparatus type [redacted]-4FP 153 32 and [redacted]-4FP 153 33 is installed in the enclosure made of resilient plastic. The handset in off position is placed in the frontal cover of the apparatus. The cable connecting the handset is protected by armoured tubing. The dial-plate is bedded in the frontal cover and it is protected with metallic mask with metallic buttons.

In case when it is used apparatus UB (without dial-plate) the place for dial-plate is covered by metallic shield

The frontal cover is equipped with sight for signalling diode. A loudspeaker for ringing is installed in the bottom part of the apparatus. The frontal and bottom part of the apparatus are fixed with screws and are sealed with rubber ring. The loudspeaker and the sight are sealed to achieve IP 66 protection.

The printed circuit board of the telephone is installed in separate space in the bottom part of the apparatus and it is potted with epoxy resin. This design answers to the protection by encapsulation "Ex mb". The circuit of the handset and auxiliary handset is designed as intrinsic safety "Ex ib".

The terminals in Ex e protection are used for connection of the non intrinsic safety external circuits.

These terminals are separately certified according to Directive 9/94/EC ATEX

The Auxiliary handset 4 FN 615 09.2 is a part of this certification.

The external connection for handset, auxiliary handset, external ringing and supplying is made through flameproof cable entries, separately certified according to Directive 9/94/EC ATEX. The external ringing is also separately certified according too Directive 9/94/EC ATEX (see Instruction manual of the manufacturer).

Technical parameters:

$U_{max\ input}$:	AC 90 V (ringing);	DC 66 V (power supply)
Frequency:	21-54 Hz	
$I_{max\ input}$:	100 mA	
$I_{max.shcirc}$:	35 A	
Tamb:	-25°C to +60°C	

(16) Report No. : 09/0160

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:
Covered by standards mentioned in (9) of this certificate.

Responsible person:

Dipl. Ing. Sindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 30.09.2010

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(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 09 ATEX 0160**

(19) **LIST OF DOCUMENTATION**

Description:	Drawing No.:	v-drawing r-bill of material	Date:
1. ATP ■Tel,■Tel-UB	4 FP 153 32,33	v+r	15.2.2010(v), 8.2.2010(r)
2. Bottom cover			
Bottom cover complete - UB	4 FN 220 32,33	v+r	15.2.2010(v), 14.5.2009(r)
3. Frontal cover complete			
Frontal cover complete – UB	4 FN 220 42,43	v+r	18.5.2009(v), 18.5.2009(r)
4. Handset complette	4 FN 624 13.2	v+r	26.2.2010(v), 2.7.2010(r)
5. Auxiliary handset	4 FN 615 09.2	v+r	25.2.2010(v), 25.2.2010(r)
6. PCB complete	4 FN 170 55,56	v+r	18.2.2010(v), 13.5.2009(r)
7. PCB complete	4 FK 179 26	v+r	27.5.2010(v), 01.2.2010(r)
8. PCB complete	4 FK 179 27	r	29.6.2010
9. Electric scheme	4 F1 179 08	v	9.6.2008
10. Electric scheme	4 F1 179 09	v	22.3.2010
11. Label -selfadhesive	4 FA 143 131	v	26.2.2010
12. Label	4 FA 143 132	v	1.3.2010
13. Membrane 2	4 FA 234 46	v	24.10.2007
14. Sealing	4 FA 250 26,27	v	19.3.2010
15. Final PCB	4 FB 007 07 .	v	30.10.2008
	4 FB 007 07, list 23	v	28.05.2010
	4 FB 007 07, list 24.1	v	27.05.2010
	4 FB 007 07, list 24.2	v	27.05.2010
	4 FB 007 07, list 25	v	28.05.2010
	4 FB 007 07, list 26.1	v	28.05.2010
	4 FB 007 07, list 28	v	12.02.2010
16. Packing rule	4 PF 6897	v	15.2.2010
17. Printing rule	4 VNF M 459	v	23.2.2010
18. Testing rule			
for PCB 4 FK 179 26,27	4 VNF D 715	v	8.2.2010
19. Testing rule			
for apparatus 4 FP 153 32,33	4 VNF D 716	v	8.2.2010

Responsible person:

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(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 09 ATEX 0160**

(19) **LIST OF DOCUMENTATION**

Description:	Drawing No.:	v-drawing r-bill of material	Date:
20. Testing rule for type tests	4 VNF D 717	v	8.2.2010
21. Rule for NK-part fuse SCHURTER	4 NK 0106	v	24.2.2010
22. Rule for NK-part terminals MK3DSH-Ex	4 NK 4481	v	24.2.2010
23. Rule for NK-part terminals MK3DSH	4 NK 4482	v	24.2.2010
24. Rule for NK-part sealing	4 NK 6407	v	14.4.2010
25. Rule for NK-part Silicon sealing Ø5	4 NK 6886	v	10.2.2010
26. Rule for NK-part; Cable gland and stopping plug	4 NK 6887	v	10.2.2010
27. Rule for NK-part Label –selfadhesive;	4 NK 6888	v	18.2.2010
28. Rule for NK-part band RESIN	4 NK 6889	v	23.2.2010
29. Rule for NK-part glue LOCTITE 406	4 NK 8815	v	10.2.2010
30. Rule for NK-part Epoxy resin ER2195	4 NK 8816	v	10.2.2010
31. Rule for NK-part PA 66,Luvocom1/XCF30	4 NK 8825	v	30.6.2010
32. Data sheet for zinc alloy Of auxiliary handset: Mazak5	ZnAl4Cu1-EN 1774, ZL0410	v	2.7.2010
33. Data sheet of PC Lexan 123R for lens 4 FA 311 51		v	31.7.2008
34. Data sheet for silicon glue	S-DC744 RTV	v	9.6.1998
35. Operating and maintenace manual	4 VNF B 378	v	6/2010
36. Technical conditions	TPTE 20-336/09	v	1.7.2010

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

Date of issue: 30.09.2010

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Physical Technical Testing Institute

Ostrava-Radvanice

(1) # Supplement No. 1 to EC-Type Examination Certificate

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

(3) EC-Type Examination Certificate Number:

FTZÚ 09 ATEX 0160

(4) Equipment or protective system: **Telephone Apparatus type [redacted]-4FP 153 32, 4FP 153 33 and Auxiliary Handset type 4FN 615 09.2**

(5) Manufacturer: **TESLA Stropkov, a.s.**

(6) Address: **Hviezdoslavova 37/46, 091 12 Stropkov, Slovak Republic**

(7) This supplement of certificate is valid for: - modification of certified apparatus- **type [redacted]-4FP 153 32/S and 4FP 153 33/S**

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, a list of which is mentioned in the schedule of this certificate.

(9) **This supplement to type examination certificate is valid** only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains other requirement which the manufacturer shall fulfil before products are placed on the market or introduce in service.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

EN 60079-0:2009; EN 60079-7:2007; EN 60079-11:2007
EN 60079-18:2009; EN 60079-31:2009

(11) Marking of equipment shall contain symbols:

Ex	**II2G Ex emb[ib] IIC T6**	**Gb**
	II2D Ex t IIIC T80°C, IP66	**Db**
	IM2 Ex emb[ib] I	**Mb**

(12) This type examination certificate is valid till: **September, 30th 2015**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 15.12.2010

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Physical Technical Testing Institute
Ostrava-Radvanice

(13) **Schedule**

(14) **Supplement No. 1 to**
EC-Type Examination Certificate N° FTZÚ 09 ATEX 0160

(15) Description of Equipment or Protective System:
Telephone Apparatus type [redacted]-4FP 153 32/S and 4FP 153 33/S and Auxiliary Handset type 4FN 615 09.2 is coated with antistatic painting with red colour (the upper cover) and black colour (the bottom) part in dim or glossy modification.
The other parameters are without changes

(16) Report No. : 09/0160-D1

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:
Covered by standards mentioned in (9) of this certificate

(19) Documentation

Description:	*Drawing No.:*	*v-drawing r-bill of material*	*Date:*
1. ATP [redacted]Tel, [redacted]Tel-UB	4 FP 153 32/S,33/S	r	16.11.2010
2. Bottom cover			
Bottom cover complete UB	4 FN 220 32/S,33/S	r	11.11.2010
3. Frontal cover			
Frontal cover complete UB	4 FN 220 42/S,43/S	r	11.11.2010
4. Handset complete	4 FN 624 13.2/S	r	16.11.2010
5. Printing rule	4 VNF M 459	v (change 4K573/10)	23.2.2010
6. Rule for NK-part			
Antistatic paint VP240	4 NK 8839	v	19.11.2010
7. Operating and maintenance manual	4 VNF B 378	v	11/2010
8. Technical conditions	TPTE 20-336/09	v (change 4K573/10)	1.7.2010

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1025

Date of issue: 15.12.2010

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