



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 03 ATEX 0104

(4) Equipment or protective system: **Flameproof telephone model 4FP 153 22 to 153 26**

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

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

(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°

03/0104 dated 09/2004

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 50014:1997+A1+A2; EN 50018:2000; EN 50020:2002

(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 following:



I M2 EEx d [ib] I

resp.

I M2 EEx d I

ligyphone apparatus

This EC-Type Examination Certificate is valid till: **30. 09. 2009**

Responsible person:

Date of issue: 30.09.2004


Dipl. Ing. Šindler Jaroslav
Head of certification body



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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

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(15) Description of Equipment or Protective System:

The flameproof housing of the telephone apparatus (autligyphone) is made of light alloy (Mg<6%). The housing consist from two parts with electric connection via flameproof wire bushing and an auxiliary receiver.

The microphone circuit is designed as intrinsically safe.

The reproductor is separated from the outside with the disc made of sintered brass.

The sight with LED diode served for operating control.

The ligyphone apparatus type 4FP05326 does not contain intrinsically safe circuits.

Cable inputs are made via flameproof cable entry.

Max. input parameters:

$U_m = 90 \text{ V}$; $I_n = 20 \text{ to } 60 \text{ mA}$; $U_n = 48 \text{ to } 60 \text{ V}$

(16) Report No. : 03/0104

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by standard mentioned in (9), according which the product was verified and in manufacturer's instruction for use.

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LIST OF DOCUMENTATION

	<i>Date issue:</i>
1. Technical conditions TPTE 20 – 087/84 (22 sheets)	22.08.2003
2. Instruction manual 4 VNF B 317 (4 sheets)	17.05.2002
3. Technical conditions TPTE 20 – 118/87 (16 sheets)	22.08.2003
4. Technical instructions 4 VNF B 106 (7 sheets)	05.06.2003
5. Drawings No.:	
4 VNF D 174 (list č. 7/10) – prescription for type tests autligyphone	22.08.2003
4 VNF D 174 (list č. 8/10) - prescription for type tests autligyphone	22.08.2003
4 VNF D 174 (list č. 9/10) - prescription for type tests autligyphone	22.08.2003
4 VNF D 174 (list č. 10/10) - prescription for type tests autligyphone	22.08.2003
4FP 153 22-26 flameproof telephone set (specification documents)	05.06.2003
4 FP 153 22 - autligyphone	05.06.2003
4 FP 153 23, 24 - aut. apparatus	05.06.2003
4FP 153 25 – flameproof UB apparatus	05.06.2003
4 FP 153 26 – flameproof ligyphone with ampfler	05.06.2003
4 FA 143 103 - label	05.06.2003
4 FA 143 105 - label	06.02.2004
4 FA 143 105/1 - label	06.02.2004
4 FA 256 03, 05 – cable gland	28.08.2004
4 FA 256 02, 04 - cable gland	28.08.2004
Bill of material Z 430 (producer TEKSIS, s.r.o.)	
4 FF 664 13 - multicore bushing P89 (supply house ZAM SERVIS)	27.05.1983
4 FA 114 12 – insert of filter	05.02.1990

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LIST OF DOCUMENTATION

5. Drawings No.:

Date issue:

10112-7 – bill of mater. of filter (acc STN 02 7706)	27.01.2004
4 FA 036 02 – shrunk ring	14.11.1978
4 FA 083 22 – plug	06.02.1986
4 FF 310 00 – sight	06.02.1986
Bill of material Makrolon 240 7	02.10.2003
4 FA 573 07 – sealing (rubber)	16.09.1976
4 FA 573 06 – sealing (rubber)	16.09.1976
Bill of material (rubber mixture No. 0084)	
4 F1 153 08 – scheme autlgyphone	21.09.2004
4 F1 153 09 – scheme AUT+ZT	21.09.2004
4 F1 153 10 – scheme UB	21.09.2004
4 F1 153 11 - scheme ligyphone	21.09.2004
4 FK 171 24, 25 (2 sheets) - piece sheet	21.09.2004
4 FK 171 24, 25- mounting plate	21.09.2004
4 FB 001 19 (list 24, 25) – printed circuit	22.09.2004
4 FK 171 26 – mounting plate	21.09.2004
4 FK 171 26 – piece sheet	21.09.2004
4 FE 370 20 (2 sheets) – transformer T3	20.04.2004
4 FE 370 21 (2 sheets) – transformer T2	20.04.2004
4 FB 001 25 ((2 sheets) – printed circuit	20.04.2004
4 FU 153 06 – assembly diagram	21.09.2004
4 FU 153 07 – assembly diagram	21.09.2004
4 FU 153 08 – assembly diagram	21.09.2004
4 FU 153 11 – assembly diagram	21.09.2004
4 FN 150 16 (2 sheets) – packet transformers	14.01.2004

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