Physical Technical Testing Institute
Ostrava – Radvanice

(1)

Supplement No. 3 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 04 ATEX 0136X

(4) Equipment or protective system: **Supply and evaluating units type NxxU-8xx**

(5) Manufacturer: **Dinel s.r.o.**

(6) Address: **U Tescomy 249, 760 01 Zlín, Czech Republic**

(7) This supplement of certificate is valid for:
- application of new standards
- prolongation of certificate validity
- change the marking

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in 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 another requirements, which manufacturer shall fulfil before products are place on market or introduce in service.

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

EN 60079-0:2012, EN 60079-11:2012

(11) Marking of equipment shall contain symbols:

Ex II (1)G [Ex ia Ga] IIC

Ex II (1)D [Ex ia Da] IIIC

Ex I (M1) [Ex ia Ma] I

(12) This type examination certificate is valid till: **27.10.2019**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

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

Date of issue: 27.10.2014

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tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz

(13) **Schedule**

(14) **Supplement No. 3 to**
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0136X

(15) Description of Equipment or Protective System:

In the equipment have not been made changes. Category devices have been expanded (1) D.
The apparatus is manufactured according to the verified documentation shown in the basic certificate and in this Supplement and complies with requirements of upgraded standards mentioned in clause (10).

The validity of the certificate is prolonged till 27.10.2019.

(16) Report No.: 04/0136-3

(17) Special conditions for safe use: remain unchanged

(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by the standards mentioned in clause (10) of this supplement according which the equipment was verified.

(19) List of Documentation:

Title:	Date:	Pages:
Technical manual	07.2014	21
Users manual	07.2014	9
NxxU-8xx-OD-01 to 09	07.2014	9

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

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Physical Technical Testing Institute

Ostrava-Radvanice

(1)

Supplement No. 2 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 04 ATEX 0136X

(4) Equipment or protective system: **Supply and evaluating units type NxxU-8xx**

(5) Manufacturer: **Dinel, s.r.o.,**

(6) Address: **U Tescomy 249, 760 01 Zlín, Czech Republic**

(7) This supplement of certificate is valid for: - modification of certified apparatus

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in 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 another requirements, which manufacturer shall fulfil before products are place on market or introduce in service.

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

EN 60079-0 : 2006; EN 60079-11 : 2007

(11) Marking of equipment shall contain symbols:

II (1)G [Ex ia] IIC

I (M1) [Ex ia] I

(12) This type examination certificate is valid till: **27. 10. 2014**

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: 23.04.2010

Number of pages: 3

Page: 1/3

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(13) **Schedule**

(14) **Supplement No. 2 to**
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0136X

(15) Description of Equipment or Protective System:

The new type of transformer STROPTEL 430-0183 was approved.

The above mentioned modifications have no influence to the safety level.

Technical data remain unchanged.

(16) Report No. : 04/0136-2 (10 pages)

(17) Special conditions for safe use: remain unchanged

(18) Essential Health and Safety Requirements:
Covered by standards mentioned in (10).

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

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(13) **Schedule**

(14) **Supplement No. 2 to**
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0136X

(19) **LIST OF DOCUMENTATION**

Documentation:	*Date:*
1. Drawing No. 430-0183	26.11.2009

2. Drawings:

- Annex 1: Wiring diagram NxxU-8xx -230V-R
- Annex 9: Component list NxxU-8xx -230V-R
- Annex 10: Wiring diagram NxxU-8xx -24V-R
- Annex 18: Component list NxxU-8xx -24V-R
- Annex 19: Wiring diagram NxxU-8xx -230V-T
- Annex 24: Component list NxxU-8xx -230V-T
- Annex 25: Wiring diagram NxxU-8xx -24V-T
- Annex 30: Component list NxxU-8xx -24V-T

All Annexes are verified dated 22.04.2010.

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

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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 04 ATEX 0136X

(4) Equipment or protective system: **Supply and evaluating units type NxxU-8xx**

(5) Manufacturer: **Dinel, s.r.o.,**

(6) Address: **U Tescomy 249, 760 01 Zlín, Czech Republic**

(7) This supplement of certificate is valid for:
- application of new standards
- prolongation of certificate validity
- modification of certified apparatus

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in 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 another requirements, which manufacturer shall fulfil before products are place on market or introduce in service.

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

EN 60079-0 : 2006; EN 60079-11 : 2007

(11) Marking of equipment shall contain symbols:

II (1)G [Ex ia] IIC

I (M1) [Ex ia] I

(12) This type examination certificate is valid till: **27. 10. 2014**

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: 27.10.2009

Number of pages: 4

Page: 1/4

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(13) **Schedule**

(14) **Supplement No. 1 to**
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0136X

(15) Description of Equipment or Protective System:

The original unit series with relay output was extended with unit provided galvanic separation. The marking was supplemented wit affix „-T“ (transistor output) or „-R“ (relay output). The new type of transformer PTF-20HR.011 was approved. At the same time the printed circuit board was modified. The above mentioned modifications have no influence to the safety level.

The certified apparatus is manufactured according to the verified documentation shown in the basic certificate and in this Supplement and complies with requirements of upgraded standards listed in (10).

The validity of the certificate is prolonged till 27.10.2014.

Technical data remain unchanged.

(16) Report No. : 04/0136-1

(17) Special conditions for safe use: remain unchanged

(18) Essential Health and Safety Requirements:
Covered by standards mentioned in (10).

Responsible person:

Date of issue: 27.10.2009

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(13) **Schedule**

(14) **Supplement No. 1 to**
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0136X

(19) **LIST OF DOCUMENTATION**

Documentation:	*Date:*
1. Technical specification NxxU-8xx (21 pages)	06/2009
2. Instruction for use NSSU, NDSU, NCLU (2 sheets)	06/2009
3. Production documentation NxxU-8xx (85 pages)	06/2009
4. Drawings:	
• Annex 1: Wiring diagram NxxU-8xx -230V-R	verified on 27.10.2009
• Annex 2: Layout chart of PCB NxxU-8xx -230V-R	verified on 27.10.2009
• Annex 3: Layout chart NSSU-811-230V-R with component values	verified on 27.10.2009
• Annex 4: Layout chart NSSU-812-230V-R with component values	verified on 27.10.2009
• Annex 5: Layout chart NDSU-822-230V-R with component values	verified on 27.10.2009
• Annex 6: Layout chart NLCU-821-230V-R with component values	verified on 27.10.2009
• Annex 7: Layout chart NLCU-822-230V-R with component values	verified on 27.10.2009
• Annex 8: PCB face NxxU-8xx -230V-R (components and track side)	verified on 27.10.2009
• Annex 9: Component list NxxU-8xx -230V-R	verified on 27.10.2009
• Annex 10: Wiring diagram NxxU-8xx -24V-R	verified on 27.10.2009
• Annex 11: Layout chart of PCB NxxU-8xx -24V-R	verified on 27.10.2009
• Annex 12: Layout chart NSSU-811-24V-R with component values	verified on 27.10.2009
• Annex 13: Layout chart NSSU-812-24V-R with component values	verified on 27.10.2009
• Annex 14 Layout chart NDSU-822-24V-R with component values	verified on 27.10.2009
• Annex 15: Layout chart NLCU-821-24V-R with component values	verified on 27.10.2009
• Annex 16: Layout chart NLCU-822-24V-R with component values	verified on 27.10.2009
• Annex 17: PCB face NxxU-8xx -24V-R (components and track side)	verified on 27.10.2009
• Annex 18: Component list NxxU-8xx -24V-R	verified on 27.10.2009
• Annex 19: Wiring diagram NxxU-8xx -230V-T	verified on 27.10.2009
• Annex 20: Layout chart of PCB NxxU-8xx -230V-T	verified on 27.10.2009
• Annex 21: Content of side plate NSSU-811-230V-T	verified on 27.10.2009
• Annex 22: Content of side plate NSSU-812-230V-T	verified on 27.10.2009
• Annex 23: PCB face NxxU-8xx -230V-T (components and track side)	verified on 27.10.2009

Responsible person:

Date of issue: 27.10.2009

Dipl. Ing. Šindler Jaroslav
Head of certification body

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(13) **Schedule**

(14) **Supplement No. 1 to**
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0136X

(19) **LIST OF DOCUMENTATION**

Documentation:	*Date:*
• Annex 24: Component list NxxU-8xx -230V-T	verified on 27.10.2009
• Annex 25: Wiring diagram NxxU-8xx -24V-T	verified on 27.10.2009
• Annex 26: Layout chart of PCB NxxU-8xx -24V-T	verified on 27.10.2009
• Annex 27: Content of side plate NSSU-811-24V-T	verified on 27.10.2009
• Annex 28: Content of side plate NSSU-812-24V-T	verified on 27.10.2009
• Annex 29: PCB face NxxU-8xx -24V-T (components and track side)	verified on 27.10.2009
• Annex 30: Component list NxxU-8xx -24V-T	verified on 27.10.2009
• Annex 31: Front panel drawing NxxU-8xx -230V-x, NxxU-8xx -24V-x (the holes machining)	verified on 27.10.2009
• Annex 32: Front panel layout NxxU-8xx -230V-x and terminal numbering	verified on 27.10.2009
• Annex 33: Front panel layout NxxU-8xx -24V-x and terminal numbering	verified on 27.10.2009
• Annex 34: Side plate NSSU-811-230V-R and NSSU-811-24V-R	verified on 27.10.2009
• Annex 35: Side plate NSSU-811-230V-T and NSSU-811-24V-T	verified on 27.10.2009
• Annex 36: Side plate NSSU-812-230V-R and NSSU-812-24V-R	verified on 27.10.2009
• Annex 37: Side plate NDSU-822-230V-R and NDSU-822-24V-R	verified on 27.10.2009
• Annex 38: Side plate NDSU-822-230V-T and NDSU-822-24V-T	verified on 27.10.2009
• Annex 39: Side plate NLCU-821-230V and NLCU-821-24V	verified on 27.10.2009
• Annex 40: Side plate NLCU-822-230V and NLCU-822-24V	verified on 27.10.2009
• Annex 41: Manufacturer pate with serial No.	verified on 27.10.2009
• Annex 42: Microproces programme U1	verified on 27.10.2009
• Annex 43: Technical parameters of component related to intrinsic safety	verified on 27.10.2009
• Annex 44: Technical parameters of box DOLD KO 4300S	verified on 27.10.2009

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

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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 04 ATEX 0136X

(4) Equipment or protective system: **Supply and evaluating units type NxxU-8xx**

(5) Manufacturer: **Dinel, s.r.o.,**

(6) Address: **Na Výsluní 541, 760 01 Zlín, Czech 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°

04/0136 dated 20 September 2004

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

EN 50014:1997 + A1, A2; 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:

Ex II (1)G [EEx ia] IIC

Ex I (M1) [EEx ia] I

This EC-Type Examination Certificate is valid till: **21.09. 2009**

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: 21 of September 2004

Number of pages: 3

Page: 1/3

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(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 04 ATEX 0136X**

(15) Description of Equipment or Protective System:

The supply and evaluating units type NxxU-8xx are associated apparatus intended to be used for supply and state evaluation of sensors type NAMUR. They are manufactured in single-channel or two-channel version with possible detection of fault conditions. The main two versions differ in supply voltage of units - 230 V respectively 24 V. The outputs are voltage free contact of two relays.

Maximum parameters of input intrinsic safe circuit:

U_o = 10,5 V; I_o = 10,4 mA; P_o = 27,3 mW; L_o = 150 mH; C_o = 1,8 μF

U_m = 253 V

Ambient temperature: $-20°C \leq T_a \leq +60°C$

(16) Report No.: 04/0136

(17) Special conditions for safe use: -

When use in mining conditions the units NxxU-8xx must be placed in non-hazardous areas or must be placed inside of the flameproof enclosure „d".

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (9) of this certificate in accordance with the product was verified and in manufacturer's instruction for use.

Responsible person:

Date of issue: 21 of September 2004

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex AO 210 NB 1026

Dipl. Ing. Šindler Jaroslav
Head of certification body

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(13) **Schedule**

(14) # EC-Type Examination Certificate N° FTZÚ 04 ATEX 0136X

(19) ## LIST OF DOCUMENTATION

Documentation:	*Date:*
1. Technical specification NxxU-8xx (17 pages)	09 / 2004
2. Instruction for use NSSU, NDSU, NCLU (4 pages)	06 / 2004
3. Test schedule NxxU-8xx (2 pages)	07 / 2004
4. Production documentation NxxU-8xx (5 pages)	09 / 2004
5. Drawings:	
• Annex 1: Wiring diagram NxxU-8xx -230 V	verified on 20.09.2004
• Annex 2: Layout chart of PCB NxxU-8xx -230 V	verified on 20.09.2004
• Annex 3: Layout chart NSSU-811-230 V with component values	verified on 20.09.2004
• Annex 4: Layout chart NSSU-812-230 V with component values	verified on 20.09.2004
• Annex 5: Layout chart NDSU-822-230 V with component values	verified on 20.09.2004
• Annex 6: Layout chart NLCU-821-230 V with component values	verified on 20.09.2004
• Annex 7: Layout chart NLCU-822-230 V with component values	verified on 20.09.2004
• Annex 8: PCB face NxxU-8xx -230 V (components and track side)	verified on 20.09.2004
• Annex 9: Component list NxxU-8xx -230 V	verified on 20.09.2004
• Annex 10: Wiring diagram NxxU-8xx -230 V	verified on 20.09.2004
• Annex 11: Layout chart of PCB NxxU-8xx -24 V	verified on 20.09.2004
• Annex 12: Layout chart NSSU-811-24 V with component values	verified on 20.09.2004
• Annex 13: Layout chart NSSU-812-24 V with component values	verified on 20.09.2004
• Annex 14 Layout chart NDSU-822-24 V with component values	verified on 20.09.2004
• Annex 15: Layout chart NLCU-821-24 V with component values	verified on 20.09.2004
• Annex 16: Layout chart NLCU-822-24 V with component values	verified on 20.09.2004
• Annex 17: PCB face NxxU-8xx -24 V (components and track side)	verified on 20.09.2004
• Annex 18: Component list NxxU-8xx -24 V	verified on 20.09.2004
• Annex 19: Drawing of front panel NxxU-8xx -230 V, NxxU-8xx -24 V (hole milling)	verified on 20.09.2004
• Annex 20: Parts on front panel NxxU-8xx -230 V, NxxU-8xx -24 V (terminals numbering)	verified on 20.09.2004
• Annex 21: Content of side plate NSSU-811-230 V a NSSU-811-24 V	verified on 20.09.2004
• Annex 22: Content of side plate NSSU-812-230 V a NSSU-812-24 V	verified on 20.09.2004
• Annex 23: Content of side plate NDSU-822-230 V a NDSU-822-24 V	verified on 20.09.2004
• Annex 24: Content of side plate NLCU-821-230 V a NLCU-821-24 V	verified on 20.09.2004
• Annex 25: Content of side plate NLCU-822-230 V a NLCU-822-24 V	verified on 20.09.2004
• Annex 26: Content of manufacturers plate with production number	verified on 20.09.2004

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE
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