



# OBAC



**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Jasna 31**

## (1) **EC-TYPE EXAMINATION CERTIFICATE**

(Translation)

- (2) Equipment, Protective Systems and Components Intended for use in Potentially Explosive Atmospheres.  
Directive 94/9/EC.
- (3) EC-Type – Examination Certificate Number: **OBAC 05 ATEX 289**
- (4) Equipment or protective system: **Series of telecommunication boxes of STK, STK5, STK10, STP10, STP16 and STP24 types**
- (5) Manufacturer: **Przedsiębiorstwo Usługowo-Produkcyjne TELVIS Sp. z o.o.**
- (6) Address: **40 – 181 Katowice, ul. Osikowa 69**
- (7) This equipment or protective system and any acceptable variation thereto is specified in this certificate and in the documentation listed below.
- (8) Institute for Research and Certification „OBAC” Ltd., notified body No.1461 in accordance with Article 9 of the European Council Directive 94/9/EC of March 23, 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 the confidential report No: OBAC/05/ATEX/289.
- (9) Compliance with the Essentials Heath and Safety Requirements has been assured by conformity with:  
**PN-EN 50014:2004, PN-EN 50020:2005,**  
**PN-EN 50284:2004, PN-EN 50303:2004.**
- (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, evaluation and tests of the specified equipment or protective system according to the Directive 94/9/EC. The certificate does not apply to further requirements of the Directive relating to the manufacture and placing on the market of this equipment or protective system.
- (12) The marking of the equipment or protective system shall include the following:



**I M1 EEx ia I**  
**II 1G EEx ia IIC T6**



**President of Board  
of the Notified Body**

**Zbigniew Tarnawski M.Sc.**

Gliwice, 30 November 2005

Druk OBAC/4-8 Certyfikat badania typu WE-ATEX





# OBAC

**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Jasna 31**

(13)

## SCHEDULE

(14)

**to the EC-Type Examination Certificate**  
**No. OBAC 05 ATEX 289**

(15) Description of Ex equipment or protective system:

The STK- and STP-type telecommunication boxes include the universal telecommunication enclosure of OUT-2 and OUT-21 types which incorporate a base and a cover. The base (body) and the cover are made of ITAMID 28 SAM plastic subjected to superficial modification. The packing and mechanical joints of the enclosure elements are so executed that no intrusion of dust or water is possible into the enclosure. The rubber gasket used in the enclosure cover ensures dust and water-splash of IP65 protection level. The cables and conductors are introduced into the enclosure through cable chokes of IP68 protection level. Inside the boxes there are printed circuit boards with soldered connecting blocks. The individual telecommunication boxes of STP and STK series differ in their enclosure, and type and number of connecting blocks necessary for forming the telecommunication cable, see Tables 1 and 2 below.

Table 1

Item No.	Designation	Terminal-pair number	Number of cable bunches	Enclosure	Type of connector
1.	STP10	10	5x2x0,8 10x2x0,8	OUT 2	MKDSN 1,5/2 or equivalent
2.	STP16	16	5x2x0,8 10x2x0,8 16x2x0,8	OUT 2	MKDSN 1,5/2 or equivalent
3.	STP24	24	5x2x0,8 10x2x0,8 16x2x0,8 24x2x0,8	OUT 2	MKDSN 1,5/2 or equivalent

Table 2

Item No.	Designation	Terminal-pair number	Number of cable bunches	Enclosure	Type of connector
1.	STK	5	5x2x0,8	OUT 21	SMKDS 3/2 or equivalent
2.	STK5	5	5x2x0,8	OUT 21	MKDSN 1,5/2 or equivalent
3	STK10	10	5x2x0,8 10x2x0,8	OUT 21	MKDSN 1,5/2 or equivalent



**President of Board  
of the Notified Body**

**Zbigniew Tarnawski M.Sc.**





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**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Jasna 31**

(13)

## SCHEDULE

(14)

**to the EC-Type Examination Certificate**  
**No. OBAC 05 ATEX 289**

### Rated data:

– Permissible voltage at connecting terminals Ui:	60[V]
– Max. permissible current of individual circuits Ii:	3[A]
– Clearances across the surface of insulation material:	min. 8 [mm]
– Wire cross-section of connected conductors for STP box:	from 0,4 to 1,5 [mm <sup>2</sup> ]
– Wire cross-section of connected conductors for STK box:	from 0,4 to 2,5(4) [mm <sup>2</sup> ]
– Terminal-pair number:	5, 10, 16, 24
– Protection level:	IP 65
– Working temperature range:	from -20 to +40 [°C]
– Box internal parameters seen from input terminals side:	Li = 0 Ci = 0

(16) Report:

**OBAC/05/ATEX/289**

**Reports No.: 1266/94 and 227/94 (KDB GIG)**

**The series of telecommunication boxes of STK, STK5, STK10, STP10, STP16, TP24 type** meets the requirements for explosion-proof equipment and can be used as the device of equipment group I category M1, and equipment group IIC category 1G.

(17) Special conditions for safe use:

Nor specified.

(18) The compliance with the Essential Health and Safety Requirements has been assured by compliance with standards shown in p. 9 of this certificate..



**President of Board  
of the Notified Body**

**Zbigniew Tarnawski M.Sc.**





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**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Jasna 31**

(13)

## SCHEDULE

(14)

**to the EC-Type Examination Certificate**  
**No. OBAC 05 ATEX 289**

(19) List of agreed documentation:

- |   |                     |
|---|---------------------|
| – Technical Documentation DT-22.D2.1.00 of November 2005. | Drg. No. 22.M2.1.00 |
| – Telecommunication box of STK... type – Assembly drawing | Drg. No. 22.E1.1.01 |
| – STK telecommunication box printed circuit board         | Drg. No. 22.E2.1.02 |
| – STK5 telecommunication box printed circuit board        | Drg. No. 22.E2.1.03 |
| – STK10 telecommunication box printed circuit board       | Drg. No. 22.M2.2.00 |
| – Telecommunication box of STP... – Assembly drawing      | Drg. No. 22.E2.2.01 |
| – STP10 telecommunication box printed circuit board       | Drg. No. 22.E2.2.02 |
| – STP16 telecommunication box printed circuit board       | Drg. No. 22.E2.2.03 |
| – STP24 telecommunication box printed circuit board       | Drg. No. 22.M2.1.01 |
| – Telecommunication box of STK... type – name plates      | Drg. No. 22.M2.2.01 |
| – Telecommunication box of STP... type – name plates      |                     |



**President of Board**  
**of the Notified Body**

**Zbigniew Tarnawski M.Sc.**





# OBAC



**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Jasna 31**

## (1) **EC-TYPE EXAMINATION CERTIFICATE**

(Translation)

- (2) Equipment, Protective Systems and Components Intended for use in Potentially Explosive Atmospheres. Directive 94/9/EC.
- (3) EC-Type – Examination Certificate Number: **OBAC 05 ATEX 289**
- (4) Equipment or protective system: **Series of telecommunication boxes of STK, STK5, STK10, STP10, STP16 and STP24 types**
- (5) Manufacturer: **Przedsiębiorstwo Usługowo-Produkcyjne TELVIS Sp. z o.o.**
- (6) Address: **40 – 181 Katowice, ul. Osikowa 69**
- (7) This equipment or protective system and any acceptable variation thereto is specified in this certificate and in the documentation listed below.
- (8) Institute for Research and Certification „OBAC” Ltd., notified body No.1461 in accordance with Article 9 of the European Council Directive 94/9/EC of March 23, 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 the confidential report No: OBAC/05/ATEX/289.
- (9) Compliance with the Essentials Health and Safety Requirements has been assured by conformity with:
- PN-EN 50014:2004,      PN-EN 50020:2005,**  
**PN-EN 50284:2004,      PN-EN 50303:2004.**
- (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, evaluation and tests of the specified equipment or protective system according to the Directive 94/9/EC. The certificate does not apply to further requirements of the Directive relating to the manufacture and placing on the market of this equipment or protective system.
- (12) The marking of the equipment or protective system shall include the following:



**I M1 EEx ia I**  
**II 1G EEx ia IIC T6**



**President of Board  
of the Notified Body**

**Zbigniew Tarnawski M.Sc.**

Gliwice, 30 November 2005

Druk OBAC/4-8 Certyfikat badania typu WE-ATEX





# OBAC

**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Jasna 31**

(13)

## SCHEDULE

(14)

**to the EC-Type Examination Certificate**  
**No. OBAC 05 ATEX 289**

(15) Description of Ex equipment or protective system:

The STK- and STP-type telecommunication boxes include the universal telecommunication enclosure of OUT-2 and OUT-21 types which incorporate a base and a cover. The base (body) and the cover are made of ITAMID 28 SAM plastic subjected to superficial modification. The packing and mechanical joints of the enclosure elements are so executed that no intrusion of dust or water is possible into the enclosure. The rubber gasket used in the enclosure cover ensures dust and water-splash of IP65 protection level. The cables and conductors are introduced into the enclosure through cable chokes of IP68 protection level. Inside the boxes there are printed circuit boards with soldered connecting blocks. The individual telecommunication boxes of STP and STK series differ in their enclosure, and type and number of connecting blocks necessary for forming the telecommunication cable, see Tables 1 and 2 below.

Table 1

Item No.	Designation	Terminal-pair number	Number of cable bunches	Enclosure	Type of connector
1.	STP10	10	5x2x0,8 10x2x0,8	OUT 2	MKDSN 1,5/2 or equivalent
2.	STP16	16	5x2x0,8 10x2x0,8 16x2x0,8	OUT 2	MKDSN 1,5/2 or equivalent
3.	STP24	24	5x2x0,8 10x2x0,8 16x2x0,8 24x2x0,8	OUT 2	MKDSN 1,5/2 or equivalent

Table 2

Item No.	Designation	Terminal-pair number	Number of cable bunches	Enclosure	Type of connector
1.	STK	5	5x2x0,8	OUT 21	SMKDS 3/2 or equivalent
2.	STK5	5	5x2x0,8	OUT 21	MKDSN 1,5/2 or equivalent
3	STK10	10	5x2x0,8 10x2x0,8	OUT 21	MKDSN 1,5/2 or equivalent



**President of Board**  
**of the Notified Body**

**Zbigniew Tarnawski M.Sc.**





# OBAC

**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Jasna 31**

(13)

(14)

## **SCHEDULE** **to the EC-Type Examination Certificate** **No. OBAC 05 ATEX 289**

### **Rated data:**

– Permissible voltage at connecting terminals $U_i$ :	60[V]
– Max. permissible current of individual circuits $I_i$ :	3[A]
– Clearances across the surface of insulation material:	min. 8 [mm]
– Wire cross-section of connected conductors for STP box:	from 0,4 to 1,5 [mm <sup>2</sup> ]
– Wire cross-section of connected conductors for STK box:	from 0,4 to 2,5(4) [mm <sup>2</sup> ]
– Terminal-pair number:	5, 10, 16, 24
– Protection level:	IP 65
– Working temperature range:	from -20 to +40 [°C]
– Box internal parameters seen from input terminals side:	Li = 0 Ci = 0

(16) Report:

**OBAC/05/ATEX/289**

**Reports No.: 1266/94 and 227/94 (KDB GIG)**

**The series of telecommunication boxes of STK, STK5, STK10, STP10, STP16, TP24 type** meets the requirements for explosion-proof equipment and can be used as the device of equipment group I category M1, and equipment group IIC category 1G.

(17) Special conditions for safe use:  
Nor specified.

(18) The compliance with the Essential Health and Safety Requirements has been assured by compliance with standards shown in p. 9 of this certificate..



**President of Board  
of the Notified Body**

**Zbigniew Tarnawski M.Sc.**





# OBAC

**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Jasna 31**

(13)

## SCHEDULE

(14)

**to the EC-Type Examination Certificate**  
**No. OBAC 05 ATEX 289**

(19) List of agreed documentation:

- |   |                     |
|---|---------------------|
| – Technical Documentation DT-22.D2.1.00 of November 2005. | Drg. No. 22.M2.1.00 |
| – Telecommunication box of STK... type – Assembly drawing | Drg. No. 22.E1.1.01 |
| – STK telecommunication box printed circuit board         | Drg. No. 22.E2.1.02 |
| – STK5 telecommunication box printed circuit board        | Drg. No. 22.E2.1.03 |
| – STK10 telecommunication box printed circuit board       | Drg. No. 22.M2.2.00 |
| – Telecommunication box of STP... – Assembly drawing      | Drg. No. 22.E2.2.01 |
| – STP10 telecommunication box printed circuit board       | Drg. No. 22.E2.2.02 |
| – STP16 telecommunication box printed circuit board       | Drg. No. 22.E2.2.03 |
| – STP24 telecommunication box printed circuit board       | Drg. No. 22.M2.1.01 |
| – Telecommunication box of STK... type – name plates      | Drg. No. 22.M2.2.01 |
| – Telecommunication box of STP... type – name plates      |                     |



**President of Board**  
**of the Notified Body**

**Zbigniew Tarnawski M.Sc.**





# OBAC



**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Jasna 31**

(1) **Schedule No. 1**  
**to the EC-Type Examination Certificate**  
**No. OBAC 05 ATEX 289**  
(Translation)

(2) Equipment or Protective System: **Series of telecommunication boxes**  
**of STK, STK5, STK10, STP10, STP16 and STP24 types**

(3) Manufacturer: **Przedsiębiorstwo Usługowo-Produkcyjne TELVIS Sp. z o.o.**

(4) Address: **ul. Karoliny 4; 40-186 Katowice**

(5) Compliance with the Safety Requirements has been assured by conformity with:

**PN-EN 60079-26:2007**

**PN-EN 60079-0:2006**

**PN-EN 60079-11:2007**

**PN-EN 50303:2004**

(6) Description of modifications:

Re-assessment of explosion safety of STK, STK5, STK10, STP10, STP16 and STP24 telecommunication boxes has been carried out for their compliance with requirements of standards specified in item 5 of this Schedule.

Additionally, the change of manufacturer address has been taken into account, the new address being specified in item 4 above.

(7) Results of examination performed:

The explosion-proof execution has been proved in the confidential product assessment report no. OBAC/09/ATEX/125.

The device meets the requirements for equipment group I category M1, and equipment group IIC category 1G.

Thus, the marking of explosion-proof execution is as follows:



**I M1 Ex ia I**

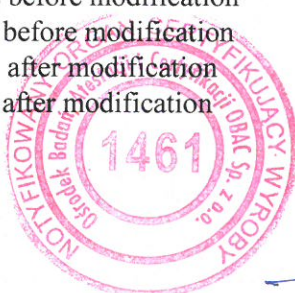


**II 1G Ex ia IIC T6**

(8) Technical documentations:

– Series of telecommunication boxes of STK, STK5, STK10, STP10, STP16 and STP24 types. Annex to the documentation including description of modifications and the following drawings:

- STK-boxes name plates before modification 22.M2.1.01
- STP-boxes name plates before modification 22.M2.2.01
- STK-boxes name plates after modification 22.M3.1.01
- STP-boxes name plates after modification 22.M3.2.01



**President of Board**  
**of the „OBAC” Institute for**  
**Research and Certification Ltd.**

**Zbigniew Tarnawski M. Sc.**

Gliwice, 16 March 2009





# OBAC



**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Jasna 31**

(1) **Schedule No. 1**  
**to the EC-Type Examination Certificate**  
**No. OBAC 05 ATEX 289**  
(Translation)

(2) Equipment or Protective System: **Series of telecommunication boxes**  
**of STK, STK5, STK10, STP10, STP16 and STP24 types**

(3) Manufacturer: **Przedsiębiorstwo Usługowo-Produkcyjne TELVIS Sp. z o.o.**

(4) Address: **ul. Karoliny 4; 40-186 Katowice**

(5) Compliance with the Safety Requirements has been assured by conformity with:

**PN-EN 60079-26:2007**

**PN-EN 60079-0:2006**

**PN-EN 60079-11:2007**

**PN-EN 50303:2004**

(6) Description of modifications:

Re-assessment of explosion safety of STK, STK5, STK10, STP10, STP16 and STP24 telecommunication boxes has been carried out for their compliance with requirements of standards specified in item 5 of this Schedule.

Additionally, the change of manufacturer address has been taken into account, the new address being specified in item 4 above.

(7) Results of examination performed:

The explosion-proof execution has been proved in the confidential product assessment report no. OBAC/09/ATEX/125.

The device meets the requirements for equipment group I category M1, and equipment group IIC category 1G.

Thus, the marking of explosion-proof execution is as follows:



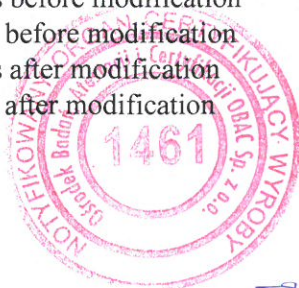
**I M1 Ex ia I**



**II 1G Ex ia IIC T6**

(8) Technical documentations:

- Series of telecommunication boxes of STK, STK5, STK10, STP10, STP16 and STP24 types. Annex to the documentation including description of modifications and the following drawings:
  - STK-boxes name plates before modification 22.M2.1.01
  - STP-boxes name plates before modification 22.M2.2.01
  - STK-boxes name plates after modification 22.M3.1.01
  - STP-boxes name plates after modification 22.M3.2.01



**President of Board**  
**of the „OBAC” Institute for**  
**Research and Certification Ltd.**

Gliwice, 16 March 2009

**Zbigniew Tarnawski M. Sc.**





# OBAC



**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Toruńska 27**

(1) **Schedule No. 2**  
**to the EC-Type Examination Certificate**  
**No. OBAC 05 ATEX 289**  
(Translation)

(2) Equipment or Protective System: **Series of telecommunication boxes**  
**of STK, STK5, STK10, STP10, STP16 and STP24 types**

(3) Manufacturer: **Przedsiębiorstwo Usługowo-Produkcyjne TELVIS Sp. z o.o.**

(4) Address: **ul. Karoliny 4; 40-186 Katowice**

(5) Compliance with the Safety Requirements has been assured by conformity with:

**PN-EN 50303:2004** (EN 50303:2000)  
**PN-EN 60079-0:2009** (EN 60079-0:2009)

**PN-EN 60079-11:2012** (EN 60079-11:2012)  
**PN-EN 60079-26:2007** (EN 60079-26:2007)

(6) Description of modifications:  
– Updating of standards and marking.

(5) Results of examination performed:

The explosion-proof execution has been proved in the confidential product assessment report no. OBAC/13/ATEX/0634.

The device meets the requirements for equipment group I category M1, and equipment group IIC category 1G.

Thus, the marking of explosion-proof execution is as follows:

**I M1 Ex ia I Ma**

**II 1G Ex ia IIC T6 Ga**

(6) Technical documentations:

- Technical Documentation no. 22.D2.1.00:
- Technical Description 22.D2.1.01. December, 2013.
- Service Manual 22.D2.1.02. December, 2013.



**Certification Body  
Manager**

**Piotr Tarnawski M.Com.**

Gliwice, 16 December 2013  
Revision 2 of 2 June 2014





# OBAC



**Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.**  
**44-122 Gliwice, ul. Toruńska 27**

(1) **Schedule No. 2**  
**to the EC-Type Examination Certificate**  
**No. OBAC 05 ATEX 289**  
(Translation)

(2) Equipment or Protective System: **Series of telecommunication boxes**  
**of STK, STK5, STK10, STP10, STP16 and STP24 types**

(3) Manufacturer: **Przedsiębiorstwo Usługowo-Produkcyjne TELVIS Sp. z o.o.**

(4) Address: **ul. Karoliny 4; 40-186 Katowice**

(5) Compliance with the Safety Requirements has been assured by conformity with:

**PN-EN 50303:2004 (EN 50303:2000)**

**PN-EN 60079-0:2009 (EN 60079-0:2009)**

**PN-EN 60079-11:2012 (EN 60079-11:2012)**

**PN-EN 60079-26:2007 (EN 60079-26:2007)**

(6) Description of modifications:

– Updating of standards and marking.

(5) Results of examination performed:

The explosion-proof execution has been proved in the confidential product assessment report no. OBAC/13/ATEX/0634.

The device meets the requirements for equipment group I category M1, and equipment group IIC category 1G.

Thus, the marking of explosion-proof execution is as follows:



**I M1 Ex ia I Ma**



**II 1G Ex ia IIC T6 Ga**

(6) Technical documentations:

- Technical Documentation no. 22.D2.1.00:
- Technical Description 22.D2.1.01. December, 2013.
- Service Manual 22.D2.1.02. December, 2013.



**Certification Body  
Manager**

**Piotr Tarnawski M.Com.**

Gliwice, 16 December 2013  
Revision 2 of 2 June 2014