



OBAC

Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.
44-121 Gliwice, ul. Łabędzka 21

(1) EU-TYPE EXAMINATION CERTIFICATE

(Translation)

(2) Equipment, components and protective systems intended for use in potentially explosive atmospheres.
Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014.

(3) EU type examination certificate No: **OBAC 16 ATEX 0386**

(4) Product: **Underground bistable station type SDD-T**

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

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

(7) This equipment, component or protective system and any of its approved version is specified in this certificate and in documents listed in p. 19.

(8) The Institute for Research and Certification „OBAC” Ltd., notified body No.1461 in accordance with Article 13 of the European Council Directive 2014/34/EU of February 26, 2014, certifies that this equipment, component or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment, component or 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/16/ATEX/0386

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

PN-EN 60079-0:2013
(EN 60079-0:2012)

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

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

(10) If the sign „X” is placed after the certificate number, it indicates that the product concerned is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-type examination certificate relates only to the design, evaluation and tests of the specified equipment, component or protective system according to the Directive 2014/34/EU. The certificate does not apply to further requirements of the Directive relating to the manufacture and placing on the market of this equipment, component or protective system.

(12) The marking of the equipment, component or protective system must include the following:

 **I M1 Ex ia I Ma**



**by proxy of Certification
Body Manager**


Piotr Barglik M. Sc.

Gliwice, 17th November 2016



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(13)

SCHEDULE

(14)

to the EU-Type Examination Certificate
No. OBAC 16 ATEX 0386

(15) Ex Product description:

The underground bistable station type SDD-T is an electric device intended for gathering information from bistable sensors connected to it that are used for monitoring of slowly changing processes and for operation with the ground level station of the UTS-T system. The underground bistable station type SDD-T consists of plastic enclosure with IP65 protection class inside of which there is a printed circuit board with electronic components.

Rated data:

Supply voltage	15 ÷ 60V DC
Power consumption	16 mA
Protection class	IP65
Temperature range	from -20°C to +40°C
Intrinsic safety parameters	
Maximum electric parameters of transmission line input connector WE_LIN	U _i = 60V; I _i = 40mA; L _i = 350µH; C _i = 0;
Maximum electric parameters of transmission line output connector WY_LIN	U _o = 60V; I _o = 40mA; C _o = 800nF; L _o = 1mH
Maximum electric parameters of terminals for connection of sensors "+", "-" and "W" in terminals WE1, WE2, WE3 and WE4	U _o = 8,8V; I _o = 40mA; C _o = 730µF; L _o = 1mH

(16) Report:

– Number LL/224/2016/A of 10.10.2016.

Underground bistable station type SDD-T meets the requirements for devices with explosion proof design and may be used as a device of group I, category M1.

(17) Special conditions for safe operation:

– undefined.





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

(19) List of agreed documentation:

- Underground bistable station type SDD-T. Certification documentation No 34.D0.00 Katowice, May 2016
- Underground bistable station type SDD-T. Operation and maintenance manual. Operating instructions. No 34.D0.00/IO. Katowice, October 2016

