

## EU-TYPE EXAMINATION CERTIFICATE

- (1)
- (2) Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 2014/34/EU
- (3) EU-Type Examination  
Certificate Number: **TEST 16 ATEX 0030X**
- (4) Product: **OKO C503 GPRS/SMS data logger for cylinder  
changeover**
- (5) Manufacturer: **AIUT Sp. z o.o.**
- (6) Address: **ul. Wyczółkowskiego 113, 44-109 Gliwice, Poland**
- (7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Jednostka Opiniująca, Atestująca i Certyfikująca Wyroby TEST Sp. z o.o. („TEST” Product Assessment, Approval and Certification Body Ltd.), Notified Body number 2057, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential Report No. TEST/RW/18/16/MN.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2012+A11:2013**      **EN 60079-11:2012**  
(PN-EN 60079-0:2013-03+A11:2014-03)      (PN-EN 60079-11:2012)
- (10) If the sign “X” is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.
- (11) This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.  
This certificate is valid in its entirety, schedule(s) included.
- (12) The marking of the product shall include the following:



**II 1G Ex ia IIA T3 Ga**



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### Description of product:

OKO C503 GPRS/SMS, a data logger for cylinder changeover is an intrinsically safe device designed to monitor the cylinders reserve level. The data about its position is acquired with the use of magnetic sensors and sent over GPRS or by SMS service to acquisition server. The device is integrated with the enclosure of the bottle switch. OKO C503 logger consists of two encapsulated parts: packet of primary cells and the main part including the majority of electronic components. There are two versions available: with integrated radio antenna and with SMA connector for external antenna. At the top of the device optical port is available, as well as LEDs indicating the current status of the device.

### Type marking and versions

General type marking: OKO C503-wzu4-yxxx

**w** = {7;8} - position indicating the type of used battery packet:

7 – version with battery packet ABAT L145-6103-0006

8 – version with battery packet ABAT E145-6103-0006

**z** = {C;L} - position describes the revision of mechanical coupling between bottle switch and OKO C503 device:

C – initial version

L – optimized version

**u** = {C;D} - position indicating the type of SIM card:

C – version with connector and micro SIM card

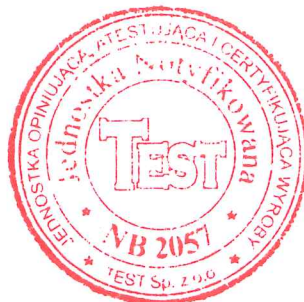
D – version with SIM on chip

**y** = {0;1} - position indicating the type of radio antenna:

0 – version with integrated wire antenna

1 – version with antenna connector

xxx - firmware version



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### Technical parameters

Power supply	primary lithium cells
Ambient temperature	-40 °C ... +60 °C
Degree of protection provided by enclosure	IP68
Radio power	< 6W

### Intrinsically safe parameters

Antenna connector (OKO C503-wzu4-1xxx):  
U<sub>o</sub>=5,36V; I<sub>o</sub>=3,58A; L<sub>o</sub>=1μH; C<sub>o</sub>=1μF

Report number:

– TEST/RW/18/16/MN

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Specific conditions of use:

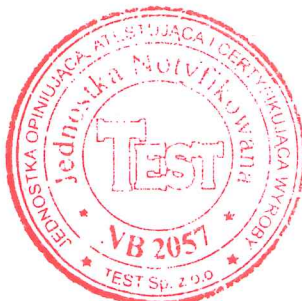
- Prevent from electrostatic discharge. Follow the instruction described in operation manual.
- Ambient temperature range: -40 °C ≤ T<sub>amb</sub> ≤ +60 °C
- The device should be mounted inside the external, dedicated enclosure
- Marking of the device should be visible after final assembly in external enclosure
- Antenna connector should be protected by isolating cover

Guidelines related to above-mentioned conditions are available in operation manual.

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Essential Health and Safety Requirements:

These requirements (EHSRs) are covered by the standards listed at item 9.



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(18) Drawings and documents:

- [1] Documentation for Ex certification: OKO C503 Rejestrator z komunikacją GPRS/SMS do przełącznika butlowego; 03-164.09.01; Version 1.1; 07.2015; 46 pages.
- [2] Subassembly documentation: Płytką drukowaną OKO 55x3-xxx4; 03-164.09.01; Version 2.1; 05.07.2016; 28 pages.
- [3] Subassembly documentation: Płytką drukowaną ABAT L145-6103-0006; 03-164.09.01; Version 1.0; 2016.08.18; 7 pages.
- [4] Subassembly documentation: Płytką drukowaną ACLE 55x3-xxx2; 03-164.09.01; Version 1.3; 2015.08.18; 11 pages.
- [5] Subassembly documentation: Płytką drukowaną ACLED 55x3-xxx1; 03-164.09.01; Version 1.1; 2016.07.08; 6 pages.
- [6] Subassembly documentation: Płytką drukowaną ACLED 55x3-xxx2; 03-164.09.01; Version 1.0; 2016.09.02; 8 pages.
- [7] Subassembly documentation: Płytką drukowaną AFLEX C5x3-xxx2; 03-164.09.01; Version 1.1; 2016.07.08; 6 pages.
- [8] Subassembly documentation: Płytką drukowaną uSIM xxx3-xxx3; 03-164.09.01; Version 1.1; 2013.10.10; 6 pages.
- [9] Assembly documentation: OKO C5x3-xxx4; 03-164.09.01; Version 1.1; 2016.08.12; 22 pages.
- [10] Minimal content of instruction manual: OKO C503 Rejestrator z komunikacją GPRS/SMS do przełącznika butlowego; 03-164.09.01; Version 1.1; 10.08.2016; 9 pages.

Detailed list of documents required for certified type identification is included in Report mentioned in Clause (16).



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