OKO Cxx5 & APIJI SF Cxx5

EU Declarations of Conformity

	Council Directive: 2014/53/EU		
Harmonized standards	Art. 3.1a) The protection of the health and the safety of persons		
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013	Information technology equipment. Safety. Part 1: General requirements.		
	Art. 3.1b) EMC		
ETSI EN 301 489-1 V2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services;		
	Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU		
Final Draft	Electromagnetic Compatibility (EMC) standard for radio equipment and services;		
ETSI EN 301 489-3 V2.1.1	Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencial between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirement of article 3.1(b) of Directive 2014/53/EU		
Final Draft	Electromagnetic Compatibility (EMC) standard for radio equipment and services;		
ETSI EN 301 489-17 V3.1.1	Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonise Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU		
	Art 3.2 Efficient use and support for efficient use of radio spectrum		
ETSI EN 300 220-2 V3.1.1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz;		
	Part 2: Harmonised Standard covering the essential requirements of article 3.2 Directive 2014/53/EU for non specific radio equipment		
ETSI EN 300 328 V2.1.1	Wideband transmission systems; Data transmission equipment operating in the 2,4 GI ISM band and using wide band modulation techniques; Harmonised Standard coveri the essential requirements of article 3.2 of Directive 2014/53/EU		
ATEX	Council Directive: 2014/34/EU		
Harmonized standards			
EN 60079-0:2012 + A11:2013	Explosive atmospheres Part 0: Equipment - General requirements		
EN 60079-11:2012	Explosive atmospheres Part 11: Equipment protection by intrinsic safety "i"		
The notified body (ATEX)	Central Mining Institute, Experimental Mine "Barbara", Poland		
body identification number	1453		
has performed	conformity assessment procedure according to Module B: EU-Type Examination		
and issued the Certificate:	KDB 18 ATEX 0074X 1st edition 💿 II 1G Ex ia IIA T3 Ga		
The notified body (ATEX)	Physical Technical Testing Institute Ostrava-Radvanice, Czech Republic		
body identification number	1026		
has performed	the manufacturer's quality system assessment procedure according to Module D: Conformity to type based on quality assurance of the production process		
and issued the Quality Assurance Notification:	FTZU 04 ATEX Q 008		
Product is certified under IECEx	Scheme Rules, IECEx 02 and Operational Documents as amended.		
IECEx Certificate No.	IECEX KDB 18.0008X		
Need to be and developed to the			
Products are developed and ma Signed for and on behalf of man	nufactured in an ISO 9001:2015, PN-N-18001, EN ISO/IEC 80079-34:2011 certified factory ufacturer: Prepared by:		
	uracturer. rrepared by:		

Grzegorz Szolc

Certification Engineer



CompacTi -OKO/APULSE Cxx5 Compliance and Safety Information

Name & Type

Versions

OKO C505 - GSM modem, no radio interface OKO CA05 - NB-IoT modem, no radio interface APULSE COB5 - no cellular technology.

APULSE COF5 - no cellular technology. 868/915 MHz, protocol Lora WAN / SIGFOX /

Compliance

ATEX & IECEx marking

OKO/APULSE Cxx5 is intended for use in potentially explosive atmospheres according to the marking:

(€x) II 1G Ex ia IIA T3 Ga

Technical Parameters

Producer	AIUT Sp. z o.o. (Ltd
Ingress protection	IP 65
Operating temperature	-25°C ÷ +55°C
Radio frequency range	433.2600 MHz
Maximum radiated power	2W

Intrinsically Safe Parameters

Max. output voltage Uo Max. output current lo Max. output power Po Max, external capacitance Co Max. external inductance Li

Power Supply

authorised distributors Manufacturer : AIUT Sp. zo.o. [Ltd]. Type of battery for OKO Cxx5 ABAT M052-12C5-Z000

ABAT U265-12C5-Z000 for APULSE Cxx5ABAT P175-12C5-Z000

In potentially explosive areas the battery can be replaced only by authorized personnel.

Special conditions of use in potentially explosive areas

- The device must be embedded in such a way that its casing is not available externally
- Metal parts of SMA connector must be

Environment

but hand it in at an official collection point for recycling. By doing this you help to preserve the environment (Fig. 1)

Always remove the battery before you discard or hand in the appliance at an official









Marek Gabrys

Vice President

44-109 Gliwice, Poland Tel: +48 32 775 40 00

TAX ID NIP: 631 020 03 40 STATISTIC NUMBER REGON: 271080125 Court registrar number KRS: 0000136839 IDO: 000003515 INITIAL CAPITAL 200,000,00 PLN

property of AIUT So. z o. o. (Ltd.) and can be onl used in accordance with its purpose. Any copying, distribution, publishing in whole or in part without written permission of the owner is may be covered by other restrictions as well. Therefore Clesse retains all rights, including copyright, in data, images, software, documentation, text, and

OKO Cxx5 & APULSE Cxx5 EU Declarations of Conformity

File: DoC OKO Cxx5 eng v1.pdf Gliwice, February 2019 EU DECLARATION OF CONFORMITY Product OKO Cxx5 Smart Automatic Changeover Name and address of the AIUT Sp. z o.o., ul. Wyczółkowskiego 113, 44-109 Gliwice, Poland Tel.: +48 32 775 40 00, Fax: +48 32 775 40 01 manufacturer e-mail: biuro@aiut.com This declaration of conformity is issued under the sole responsibility of the manufacturer. Object of the declaration OKO Cxx5 a smart automatic 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 GMS/ LTE/ NB-IoT service to acquisition server. The device is integrated with the enclosure of the bottle switch. OKO Cxx5 consists of two encapsulated parts: battery packet and the main part including the majority of electronic components. OKO Cxx5 is powered by a replaceable battery pack containing the primary cell. The GMS/LTE/NB-IoT modem has SMA socket for external antenna. The Bluetooth module has an integral antenna mounted The object of the declaration described above is in conformity with the relevant Union harmonisation legislation. References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared: Council Directive: 2014/53/EU RED Art. 3.1a) The protection of the health and the safety of persons Harmonized standards FN 60950-1:2006 + A11:2009 + Information technology equipment. Safety. Part 1: General requirements. A1:2010 + A12:2011 + A2:2013 Art. 3.1b) EMC ETSI EN 301 489-1 V2.1.1 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements: Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU Electromagnetic Compatibility (EMC) standard for radio equipment and services: ETSI EN 301 489-52 V1.1.0 Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU Final Draft Electromagnetic Compatibility (EMC) standard for radio equipment and services; ETSI EN 301 489-17 V3.1.1 Part 17: Specific conditions for Broadband Data Transmission Systems: Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU Art 3.2 Efficient use and support for efficient use of radio spectrum ETSI EN 301 511 V12.5.1 Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSLEN 300 328 V2.1.1 Wideband transmission systems: Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering

the essential requirements of article 3.2 of Directive 2014/53/EU

OKO Cxx5 & APULSE Cxx5 EU Declarations of Conformity

Integrated meter reading

ATEX	Council Directive: 2014/34/EU		
Harmonized standards			
EN 60079-0:2012 + A11:2013	Explosive atmospheres Part 0: Equipment - General requirements		
EN 60079-11:2012	Explosive atmospheres Part 11: Equipment protection by intrinsic safety "i"		
The notified body (ATEX)	Central Mining Institute, Experimental Mine "Barbara", Poland		
body identification number	1453		
has performed	conformity assessment procedure according to Module B: EU-Type Examination		
and issued the Certificate:	KDB 18 ATEX 0074X 1st edition 🕒 II 1G Ex ia IIA T3 Ga		
The notified body (ATEX)	Physical Technical Testing Institute Ostrava-Radvanice, Czech Republic		
body identification number	1026		
has performed	the manufacturer's quality system assessment procedure according to Module D: Conformity to type based on quality assurance of the production process		
and issued the Quality Assurance Notification:	FTZU 04 ATEX Q 008		
Product is certified under IECEx	Scheme Rules, IECEx 02 and Operational Documents as amended.		
IECEx Certificate No.	IECEx KDB 18.0008X		
Products are developed and ma Signed for and on behalf of mar	nufactured in an ISO 9001:2015, PN-N-18001, EN ISO/IEC 80079-34:2011 certified factory. Prepared by:		

Grzegorz Szolc

Certification Engineer

File: DoC_APULSE_Cxx5_eng_v1.pdf		Gliwice, February 2019
	EU DECLARATION OF CONFORMITY	
Product		
,	APULSE Cxx5 Smart Automatic Changeov	er
Name and address of the manufacturer	AIUT Sp. z o.o., ul. Wyczółkowskiego 113, 44-109 Gliwice, Poland Tel.: +48 32 775 40 00, Fax: +48 32 775 40 01 e-mail: bluro@aiut.com	
This declaration of conformity is	issued under the sole responsibility of the manufacturer.	
Object of the declaration	APULSE CoS a smart automatic 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 LoB and Bluebooth wireless interfaces. The device is integrated with the enclosure of the bottle switch. APULSE CoS consists of two encapsulated parts: battery packet and the main part including the majority of electronic components. APULSE CoS is powered by a replaceble battery pack containing the primary cell. The LoB radio interface has SMA scoket for external antenna. The Bluetooth module has an integral antenna mounted inside the housing.	

Marek Gahryé

Vice President

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation. References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:

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