Physical-Technical Testing Institute
Ostrava - Radvanice

EU - Type Examination Certificate

(1)

(2) **Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres (Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 23 ATEX 0015X

(4) Product: **Digital Test Gauge Model Series XP3i and XP3i-DD**

(5) Manufacturer: **Crystal Engineering Corporation**

(6) Address: **708 Fiero Lane, San Luis Obispo, California 93401, USA**

(7) This product and any 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 Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, 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 number:

23/0015 dated 29.09.2023

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-11:2012

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

(11) This 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.

(12) The marking of the product shall include the following:

Ex II 1G Ex ia IIC T3...T4 Ga

This certificate is valid till: **30.09.2028**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

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

Date of issue: 29.09.2023

Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, Czech Republic
tel.: +420 595 223 111, +420 604 203 525, e-mail: ftzu@ftzu.cz, www.ftzu.cz

Physical-Technical Testing Institute
Ostrava - Radvanice

(13) **Schedule**

(14) EU - Type Examination Certificate No. FTZÚ 23 ATEX 0015X

(15) Description of Product:

The product is composed of nickel plated aluminium enclosure, two PCBs with electronics and pressure sensing element. Front face has display and control buttons, on the back side of the equipment there is located USB connector for data transfer outside of the hazardous area. On the bottom there is fitting with piezo-resistive pressure sensing elements inside. It is powered by three primary AA cells 1.5 V which are located inside the enclosure in the own compartment which separates them from the PCBs.

Technical parameters:

USB port: U_m = 6 V

(16) Report Number: 23/0015

(17) Specific Conditions of Use:

1. Enclosure of the XP3i and XP3i-DD is made of aluminium, if it is mounted in an area where the use of EPL Ga apparatus is required, it must be installed such that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.
2. To avoid sparking caused by electrostatic discharge, the XP3i must be earthed during use in hazardous locations. This may be accomplished by providing an appropriate and continuous path to earth through the pressure fitting, the metal enclosure or the hand of the user.
3. Ambient temperature range and Temperature class depends on the type of the used cells:

Approved cell type:	**T_a:**	**Temperature class:**
Rayovac 815	-20 to 50 °C	T3
Duracell MN1500		
Energizer E91	-18 to 50 °C	
Energizer EN91		
Panasonic LR6XWA	-20 to 45 °C	
Varta 4106 Longlife	-10 to 45 °C	
Varta 4706 Max Tech	-20 to 45 °C	T4
Energizer EN91	-18 to 45 °C	
Varta 4906 Longlife Power	-10 to 45 °C	

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

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(13) **Schedule**

(14) **EU - Type Examination Certificate No. FTZÚ 23 ATEX 0015X**

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

(19) Drawings and Documents:

Number:	Issue:	Sheets:	Date:	Description:
6250	B	1	10.06.2019	MPA interface
6250-PCB	B	1	10.06.2019	Mechanical Specifications MPA PCB
6251	C	1	08.10.2021	PCA, MPA
6251-PCA	C	1	10.06.2019	Printed Circuit Assembly, MPA, ATEX
6591-PCB	B	1	15.09.2023	Mechanical Specifications Main, XP3i
6591	B	1	13.09.2023	Main, XP3i
6592	B	1	20.09.2023	PCA, MAIN, XP3i
6592-PCA	B	1	15.09.2023	PCA, MAIN, XP3i
6992	C	3	28.06.2023	CASE, FRONT, AL, XP3i
6996	B	3	15.09.2023	FRAME, MOLDED, XP3i
7071	B	3	24.03.2023	PANEL, FRONT, W/MEMBRANE SWITCHES, XP3i
7095	B	1	18.08.2023	BOOT, PROTECTIVE, XP3i SERIES
7106	B	1	15.09.2023	INTERIOR ASSY MODULE, XP3i
7111	A	1	21.09.2023	WIRE ASSY, BATTERY, XP3i
7131	A	2	15.09.2023	LABEL, REAR, XP3i
7132	A	2	15.09.2023	LABEL, REAR, RP, XP3i
7180	A	39	09.2023	XP3i Operation Manual

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

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