



EC-Type Examination Certificate

- (1)
(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 12 ATEX 0048X

- (4) Equipment: **Digital Test Gauge Model Series XP2i and XP2i-DD**
(5) Manufacturer: **Crystal Engineering Corporation**
(6) Address: **708 Fiero Lane, San Luis Obispo, CA, U.S.A.**

- (7) This equipment or protective system and any of 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 Article 9 of the Council Directive 94/9/EC of 23 March 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 confidential Report N°

12/0048 dated 24.04.2012

- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 60079-0:2009; EN 60079-11:2012; EN 60079-26:2007
(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, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
(12) The marking of the equipment or protective system shall include following:

 **II 1G Ex ia IIC T4/T3 Ga**

This EC-Type Examination Certificate is valid till: **30.04.2017**

Responsible person:


Dipl. Ing. Martinák Lukáš
Head of Certification body



Date of issue: 30.04.2012

Number of pages: 3
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Physical Technical Testing Institute
Ostrava-Radvanice

(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 12 ATEX 0048X**

(15) Description of Equipment or Protective System:

The equipment XP2i series is designed to measure gauge or absolute pressure. The equipment's enclosure is made from aluminium alloy. The equipment contains one PCB with all electronic, it is powered by three alkaline cells size AA, which are placed in holder in separated compartment. The equipment is produced in some variants which differs in displays (standard display, dual display), in location of port (standard and rear), type of port (standard and differential) and pressure range (differs pressure sensors).

Technical parameters

Intrinsic safe parameters

Power supply

$U_m = 4,5 \text{ V}$

Ambient temperature:

$T_a = -20^\circ\text{C}$ to $+50^\circ\text{C}$

(16) Report No. : 12/0048

(17) Special conditions for safe use:

17.1 The equipment shall not be installed in a location where the external conditions are conducive to the buildup of electrostatic charge.

17.2 The equipment shall be installed in such a way, that even in the event of rare incidents, ignition sources due to impact and friction sparks shall be excluded.

17.3 Permissible cell types:

<i>Type of Cell:</i>	<i>Producer:</i>	<i>Temperature Class:</i>
Rayovac Max Plus 815	Rayovac Corporation	T4
Energizer E91	Energizer Holdings Inc	T4
Energizer EN91	Energizer Holdings Inc	T3
Duracell MN1500	DURACELL BATTERIES	T3

(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by the standard mentioned in (9), according which the product was verified and in the manufacturer's instruction for use.

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(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 12 ATEX 0006X**

(19) List of Documentation

Title:	Drawing No.:	Rev.Level:	Nr. of pages:
Schematic	4808-SCH	B	1
PCB Drawing	4808-PCB	B	1
PCA Drawing, XP2i	4809-PCA	B	1
BOM, XP2i PCA	4809-AML	B	1
PCA Drawing, XP2i-DD	4810-PCA	B	1
BOM, XP2i-DD PCA	4810-AML	B	1
LCD, Standard	4751	A	4
LCD, Dual Display	4759	A	4
Backlight Module	4816	A	2
Enclosure, XP2i, Front, Cast Aluminum	3633	F	3
Enclosure, XP2i, Rear, Cast Aluminum	3634	F	3
Enclosure, XP2i, Front, Cast Aluminum, Without plating	4509	B	3
Enclosure, XP2i, Rear, Cast Aluminum, Without plating	4510	B	3
Gasket, Main, XP2i	3691	C	1
Battery Holder Case	3068	B	1
Battery Cover, XP2i, SS	3636	B	1
Bracket, Battery, XP2i	3637	B	1
Front Panel, Membrane Switch, XP2i	3690	C	3
Pressure Sensor	4629	A	1
Pressure Sensor	4482	C	1
Pressure Sensor	4827	A	1
Pressure Sensor	4514	A	2
Label, Rear, XP2i	4855	B	2
Label, Rear, XP2i Rear Port	4869	B	2
Manual, XP2i	4870	B	28
Manual, XP2i Differential Port	4871	B	8

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