



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 06 ATEX 0010X

- (4) Equipment or protective system: **30 Series Digital Pressure Calibrator**
- (5) Manufacturer: **Crystal Engineering Corporation**
- (6) Address: **708 Fiero Lane, Suite 9, San Luis Obispo, California, 93401, USA**
- (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°

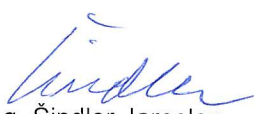
06/0010 dated 03.05.2006

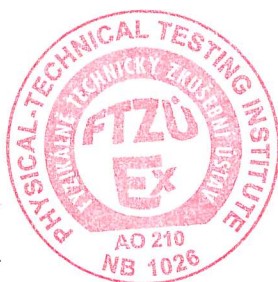
- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 50014 : 1997+A1+A2; EN 50020 : 2002
- (10) If the sign „X“ is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use 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 2G EEx ia IIC T4**

This EC-Type Examination Certificate is valid till: **15. 05. 2011**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 15.05.2006

Number of pages: 3

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 06 ATEX 0010X**

(15) Description of Equipment or Protective System:

The 30 Series Digital Pressure Calibrators are portable, battery powered instruments designed to measure pressure in hazardous areas. Further the instruments are able to measure loop current signals by means of two jacks placed on the front panel.

The apparatus comprises electronics circuits arranged on two printed circuit boards an LCD module and one or two pressure sensor assemblies, all housed in an aluminium alloy enclosure.

The battery which must be of type listed below is housed in a separate compartment.

Input/output parameters, front jacks:

$U_i = 30 \text{ V}$; $I_i = 100 \text{ mA}$; $P_i = 0,75 \text{ W}$; $C_i = 0$; $L_i = 0$

$U_o = 5 \text{ V}$; $I_o = 1,66 \text{ A}$; $P_o = 1,4 \text{ W}$; $C_o = 0,135 \mu\text{F}$; $L_o = 10 \mu\text{H}$

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

(16) Report No. : 06/0010

(17) Special conditions for safe use:

17.1 Acceptable battery types:

Varta High Energy; 9 V; 4922 E Block; 6LR61; 6AM6; MN 1604

Duracell Pile Alkaline ; 9 V; MN 1604; 6L, R61

Energizer 9 V; Size 522, 6LR31.6AM6

Energizer Industrial Lithium 9 V; Format 522FP; 6LR31.6AM6

17.2 The battery must not be replaced in hazardous location.

17.3 RS 232 interface must not be connected to any apparatus when using calibrator in hazardous location.

(18) Essential Health and Safety Requirements:

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

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Head of certification body



Date of issue: 15.05.2006

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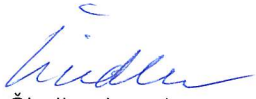
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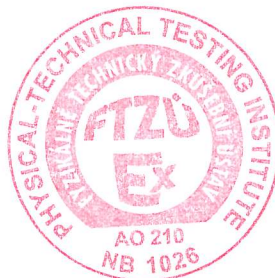
LIST OF DOCUMENTATION

<i>Document:</i>	<i>Date:</i>
• 30 Series Operation Manual (8 pages)	11/2002
• Drawings No.: 2568 – ASY	11/2/99
AX30 SERIES-ASY (sheets 1 to 3)	1/16/06
1655 – ASY	10/13/95
2252 – ASY	12/15/97
2252 – SCH	3/27/95
2444 – ASY	11/9/98
2444 – SCH	12/11/97
AX30 SERIES-BOM (Rev.C)	04/28/06

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