



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 11 ATEX 0160 X

- (4) Equipment: **Weighing Indicator, type PWI-Ex**
(5) Manufacturer: **ESİT Elektronik Sistemleri İmalat ve Tic. Ltd. Şti.**
(6) Address: **Nişantepe Mah. Fabrikalar Sok. No:8 Alemdağ 34794 İstanbul, Turkey**
(7) This equipment or protective system and any of acceptable variation thereto are 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°

11/0160 dated 25. 07. 2012

- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 60079-0:2009 EN 60079-1:2007 EN 60079-11:2007 EN 60079-31:2009
(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 2(1) GD

Ex d [ia Ga] IIB T6 Gb

Ex tb [ia] IIIC T80°C Db IP65

This EC-Type Examination Certificate is valid till: **27. 07. 2017**

Responsible person:


Dipl. Ing. Martinák Lukáš
Head of certification body



Date of issue: **27. 07. 2012**

Page: **1/3**

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This certificate may only be reproduced in its entirety and without any change, schedule included.



Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 11 ATEX 0160 X**

(15) Description of Equipment:

Weighing Indicator type PWI-Ex is a device designed for application in electronic weighing systems.

The electric and electronic parts of measuring, evaluating and communication devices are installed inside of enclosure protected with type of protection – flameproof enclosure "d". The enclosure housing is made of aluminium alloy and consists of enclosure body and cover, fastened with screws – special fasteners. The cover has a glass sight glass under it is installed display. The equipment has no control rods. The keyboard is control through magnet. The enclosure has threaded holes M16x 1,5 for installation of Ex cable glands (Ex d II, for direct entry into the enclosure).

Inside of enclosure are installed separately certified Zener barriers [Ex ia] IIC, type Z757 a Z857, certificate BAS01ATEX7005.

External intrinsically safe circuits are connected directly to the terminals of these barriers.

Alternatively supply: DC 12 V, 0,5 A, or DC 24V, 0,3A, or
AC 230 V, 50...60 Hz, 0,036 A

Ambient temperature: $-10^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

Degree of protection: IP 65

I.S. parameters are given in separate certificates. The evaluation of intrinsically safe system are not covered by this certificate.

(16) Report No.: 11/0160 (20 pages, 8 annexes)

(17) Special conditions for safe use: Verified values of the maximum gaps and minimum constructional length of flameproof joints of this enclosure differ from relevant minimum and maximum values mentioned in standard. To obtain information about joints dimension it is necessary to contact the manufacturer.

(18) Essential Health and Safety Requirements: They are included in standards, which are mentioned in clause (9) of this certificate. The product was approved in accordance with above mentioned standards.

Responsible person:

Dipl. Ing. Martinák Lukáš
Head of certification body



Date of issue: 27. 07. 2012

Page: 2/3

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This certificate may only be reproduced in its entirety and without any change, schedule included.



Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 11 ATEX 0160 X**

(19) List of documentation:

Drawings No.:	KSR-727-PWIEX 01/04	09.02.2012
	KSR-727-PWIEX 02/04	09.02.2012
	KSR-727-PWIEX 03/04	09.02.2012
	KSR-727-PWIEX 04/04	09.02.2012
	KSR-727-PWIEX Digital Part	31.05.2012
	KSR-727-PWIEX Display Board	31.05.2012
	KSR-727-PWIEX Analogue Part	31.05.2012
	KSR-727-PWIEX Power supply	31.05.2012
	KST-727-PWIEX Connections	31.05.2012
	KSR-727-PWIEX Block Diagram	29.07.2011
	KST-727-PWIEX Sealing Plan	23.07.2012
Instruction for use No.:	PWI-Ex ATEX Manual, MDK-PWIEX-R03-0612	06/2012

Responsible person:

Dipl. Ing. Martinák Lukáš
Head of certification body



Date of issue: 27. 07. 2012

Page: 3/3

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This certificate may only be reproduced in its entirety and without any change, schedule included.