

# CERTIFICATE

(1) **EC-Type Examination**

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **DEKRA 15ATEX0072 X** Issue Number: 1

(4) Equipment: **Non-automatic weighing instrument Model FZ and UZ series**

(5) Manufacturer: **Shinko Denshi Co., Ltd.**

(6) Address: **3-9-11 Yushima, Bunkyo-ku, Tokyo 113-0034, Japan**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 test report number NL/DEK/EXTR15.0077/00.

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

**EN 60079-0 : 2012 + A11 : 2013**

**EN 60079-11 : 2012**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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



**II 1 G Ex ia IIB T4 Ga**

This certificate is issued on 12 February 2016 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

R. Schuller  
Certification Manager

Page 1/2



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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 15ATEX0072 X**

Issue No. 1

(15) **Description**

The non-automatic weighing instrument is used for the precise weighing measurement by means of tuning fork sensor principle. The instrument is composed of an indicating device or a safety connection box, and one or two weighing modules. Model FZ and UZ series are categorized into seven models of FZ-620 to FZ-1200, FZ-1500 to FZ-15000, FZ-K, FZ-KF, FZ-KP, UZ, and UZ-K according to the structure of weighing module.

The enclosure of each module has a degree of protection of IP65 in accordance with EN 60529 when installed properly according to the instruction manual.

Ambient temperature: -20 °C to +40 °C.

**Electrical data**

Supply circuit (connector +DC, GND, TXD and RXD):  
in type of protection intrinsic safety Ex ia IIB, only for connection to a certified intrinsically safe circuit, with the following maximum values:  
 $U_i = 20 \text{ V}$ ;  $I_i = 139 \text{ mA}$ ;  $P_i = 0,46 \text{ W}$ ;  $C_i = 0,21 \text{ }\mu\text{F}$ ;  $L_i = 0 \text{ mH}$ .

A non-replaceable battery, Panasonic type BR2330A/FAK, is installed for memory backup.

**Installation instructions**

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. NL/DEK/ExTR15.0077/00

(17) **Special conditions for safe use**

From the safety point of view, the circuit shall be considered to be connected to earth.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. NL/DEK/ExTR15.0077/00.