



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 09 ATEX 0001X

- (4) Equipment or protective system: **Limit sensor type SPJ and SPM**
- (5) Manufacturer: **EMKOMETER LEVEL s.r.o.**
- (6) Address: **130 00 Praha 3, Žižkov, Pod lipami 340/52a, Czech Republic**
- (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°

09/0001 dated 23 February 2009

- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 60079-0:2006 EN 60079-1:2007
- (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:

Ex II 2G Ex d IIC T4

This EC-Type Examination Certificate is valid till: **28 February 2014**

Responsible person:

Jindler
Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 20.02.2009

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

(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 09 ATEX 0001X

(15) Description of Equipment or Protective System:

The microswitch (version SPM1, SPM2) or reed contact (version SPJ1, SPJ2) is installed in an enclosure made of alloy CuZn40Pb2. The switch or contact is operated with a permanent magnet. The inner cover which is made of PTFE determines the inner free volume of the sensor. The upper end of the enclosure is closed with a cover making a thread joint. The cable input is made through certified flameproof cable gland in Ex d IIC construction situated on the bottom end of the enclosure.

<i>Technical specification:</i>	<i>SPJ:</i>	<i>SPM</i>
Un:	500 VDC	250 VAC
In:	1,5 A	6,0 A

(16) Report No. : 09/0001

(17) Special conditions for safe use:

17.1 Tamb: -40°C to +120°C

17.2 Maximum design gaps of flameproof joints are smaller than maximum permitted gaps according to standard. Verified values of design gaps are mentioned in documentation, a list of which is given in clause (19) of this certificate.

17.3 The sensor is designed with fix installed cable. The cable has to be terminated in a terminal box in answering explosionproof construction. Through the used cable gland is possible only stable truss installation.

(18) Essential Health and Safety Requirements:

Covered by the standards mentioned in (9) of this certificate.

Responsible person:

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(19)

LIST OF DOCUMENTATION

Documentation:	Date
Instruction manual for using of flameproof limit switch SPJ a SPM	
282-00-M	27.2.2007
282-01-A	19.2.2009
282-02	27.2.2007
282-00-03-M	27.2.2007
282-01-03-M	27.2.2007
282-02-03-M	27.2.2007
282-03-03-M	27.2.2007
282-04-03-M	27.2.2007
282-05-03-M	27.2.2007
282-08-03-M	27.2.2007
282-10-03-M	27.2.2007
282-14-M	27.2.2007
282-14	19.2.2009
282-30-M	27.2.2007
282-33-M	27.2.2007
282-00-K	19.2.2009
282-00-J	27.2.2007
282-07-J	27.2.2007
282-09-J	27.2.2007
282-13-J	27.2.2007
282-31-J	27.2.2007
282-33-J	27.2.2007

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