



(1) **EC TYPE-EXAMINATION CERTIFICATE**  
(TRANSLATION)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres –  
**Directive 94/9/EC**

(3) EC type-examination certificate number:

**SIQ 11 ATEX 234X**



(4) Equipment: Portable gas detector, type INEP-Z

(5) Manufacturer: TEVEL d.o.o.

(6) Address: Borovniško naselje 7, SI-1412 Kisovec

(7) This equipment and any acceptable variations thereto are specified in the schedule to this certificate and in the documents listed in the confidential test report TEx234/11.

(8) SIQ Ljubljana, Notified body number 1304 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 the confidential test report TEx234/11.

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

**EN 60079-0 : 2009**

**EN 60079-11 : 2007**

(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 in accordance with 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:



**I M1 Ex ia I Ma**

Certification body

Ljubljana, 20 July 2011

Igor Likar



(13)

## SCHEDULE

(14)

### EC TYPE-EXAMINATION CERTIFICATE SIQ 11 ATEX 234 X

(15) Description of the equipment

Portable gas detector, type INEP-Z, is designed in type of protection intrinsic safety "ia" for use in mines. Apparatus can measure seven parameters: concentration of methane, carbon dioxide, carbon oxide and oxygen, temperature, relative humidity and absolute pressure. Apparatus is powered with three Ni-MH batteries, which are charged in non-hazardous area with dedicated battery charger, type INEP-P. Batteries are encapsulated so that they are protected against motion.

The apparatus consists of battery module with operation buttons and charging contacts, protective glass for display, processor module with display, protective cover for sensor module, sensor module with sensors, protective cage with handle and mesh of protective cage.

#### Technical data:

Portable gas detector, type INEP-Z:

Power supply:	3 × battery Ni-MH, type HHR300SCP
Rated voltage:	3.6 V
Rated capacity:	9 Ah
Ambient temperature:	from -20°C to +50°C

Battery charger, type INEP-P:

Power supply:	DC, 12 V, 1.2 A
Maximum charging voltage:	DC, $U_0 = 7.14 \text{ V}$
Maximum charging current:	DC, $I_0 = 2.72 \text{ A}$

(16) Test report

TEx234/11 dated 15 July 2011.

(17) Special conditions for safe use

- Batteries can be charged only in non-hazardous area with dedicated battery charger from apparatus manufacturer, type INEP-P.
- The battery pack can be replaced only by a competent person.
- The battery pack can be replaced only with original battery pack.
- Apparatus can be repaired only by a competent person.

(18) Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements has been assured by compliance with the requirements of the standards listed under item (9).