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

(1) # EC-TYPE EXAMINATION CERTIFICATE

(3) Number of the EC type examination certificate: **INERIS 14ATEX0060X**

(4) Equipment or protective system:

VALVE POSITION MONITOR TYPE LSB-3... SERIES

(5) Manufacturer: **POWER-GENEX Ltd.**

(6) Address: 44B9L, 434-9, Nonhyun-Dong, Namdong-Gu
Incheon, 405-848 KOREA

(7) This equipment or protective system and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

(8) INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23rd March 1994, and accredited by COFRAC under number 5-0045 for certification of products and services (scope of accreditation available on the website www.cofrac.fr) certifies that this equipment or protective system fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, described in annex II of the Directive.

The examinations and the tests are consigned in report No 029914/14.

The rules of certification are available on the website www.ineris.fr.

(9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

  EN 60079-0 : 2012/A11 : 2013
  EN 60079-1 : 2007

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.

Only the entire document including annexes may be reprinted. IM1336AE - 22/09/2014

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tél + 33(0)3 44 55 66 77 **fax** + 33(0)3 44 55 66 99 **internet** www.ineris.fr

Institut national de l'environnement industriel et des risques
Etablissement public à caractère industriel et commercial - RCS Senlis B 381 984 921 - Siret 381 984 921 00019 - APE 7120B

(10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protective system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.

(11) This EC type examination certificate relates only to the design, examination and tests 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 the protective system will have to contain:

Ex II 2 G

Verneuil-en-Halatte, 2014.11.19

ATMOSPHERES EXPLOSIVES ORGANISME NOTIFIE INERIS NOTIFIED BODY EXPLOSIVE ATMOSPHERES

The Chief Executive Officer of INERIS
By delegation
T. HOUEIX
Ex Certification Officer

(13) # ANNEX

(14) EC TYPE EXAMINATION CERTIFICATE N°INERIS 14ATEX0060X

(15) DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

Valve position monitor protected by flameproof enclosure "Ex d".

The equipment comprises an aluminum or stainless steel body and cover fitted with plastic PC dome indicator.

PARAMETERS RELATING TO THE SAFETY

Supply voltage pilot : according the switches and sensors defined into the certification file

Output position transmitter : 4-20 mA signal

Ambient Temperature	-40°C ...+75°C	-40°C ...+90°C	-40°C ...+110°C
Class temperature	T6	T5	T4
Cable Temperature	-	95°C	115°C

MARKING

Marking has to be readable and indelible; it has to include the following indications:

POWER-GENEX Ltd.
Incheon, 405-848 KOREA
LSB-3... (*)
INERIS 14ATEX0060X
(Serial number)
(Year of construction)
Ⓔx II 2 G
Ex d IIC T(**) Gb
Tamb : (**)
Tcable : (**)

WARNING : POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS
DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

(*) The dots are replaced by a codification according to the manufacturing variations. The different types are indicated in the descriptive documents.

(**) See table

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.2 of the EN 60079-1 standard, the equipment defined above is exempted of routine test in owing to the fact that it has undergone a static type test at 4 times the reference pressure under 34.77 bar.

(16) DESCRIPTIVE DOCUMENTS

The descriptive document quoted hereafter constitutes the technical documentation of the equipment, subject of this certificate.

- Certification file LSB-3000 Series dated and signed on 2014.09.04

(17) SPECIAL CONDITIONS FOR SAFE USE

- For the risk of electrostatic discharge, the user will have to read the instructions.
- The gap of flameproof joints is less than the values specified in tables of the EN 60079-1 standard.
- The width of the different flameproof joints is superior to the values specified in tables of the EN 60079-1 standard.

The other conditions are stipulated in the instructions.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS

The respect of the Essential Health and Safety Requirements is ensured by:

- Conformity to the standards quoted in clause (9).
- All provisions adopted by the manufacturer and defined in the descriptive documents.