

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

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

(3) EC-Type Examination Certificate Number: **KEMA 08ATEX0068 X** Issue Number: 1

(4) Equipment: **GS Product Series Sensors Models GSxxx-ATEX-CE and GCxxx-ATEX-CE**

(5) Manufacturer: **Load Systems International**

(6) Address: **4495, Wilfrid-Hamel Boul, Quebec City, Quebec, G1P 2J7, Canada**

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

(8) KEMA Quality 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 211369200.

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

EN 60079-0 : 2006

EN 60079-11 : 2007

EN60079-26 : 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 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 IIC T4 or T150 °C

This certificate is issued on May 14, 2008 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.

KEMA Quality B.V.



P.T. van Nijen
Certification Manager

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 08ATEX0068 X** Issue No. 1

(15) **Description**

The battery operated GS Product Series Sensors Models GSxxx-ATEX-CE and GCxxx-ATEX-CE are used for the detection of the hoist load, boom and jib angles, boom length, wind speed and pending anti two-block of a crane and communicate their result via a two-way radio network to a display (for instance GS550).

The series consist of the following models:

Load Sensors	GC005-ATEX-CE, GC012-ATEX-CE, GC018-ATEX-CE, GC035-ATEX-CE, GC060-ATEX-CE, GC100-ATEX-CE, GC170-ATEX-CE
Load Transmitters	GS001-ATEX-CE, GS002-ATEX-CE
A2B Wired Transmitter	GS005-ATEX-CE
Angle Sensors	GS010-01-ATEX-CE, GS010-02-ATEX-CE, GS010-03-ATEX-CE
Angle Length Sensor	GS011-ATEX-CE
Wind Speed Sensor	GS020-ATEX-CE
A2B Sensor	GS050-ATEX-CE

Electrical data

Only the following batteries may be used in the equipment

Models GC005-ATEX-CE, GC012-ATEX-CE, GC018-ATEX-CE, GC035-ATEX-CE, GC060-ATEX-CE, GC100-ATEX-CE, GC170-ATEX-CE, GS001-ATEX-CE, GS002-ATEX-CE, GS005-ATEX-CE, GS010-01-ATEX-CE, GS010-02-ATEX-CE, GS010-03-ATEX-CE, GS-011-ATEX-CE, GS020-ATEX-CE:

Battery Type	Part number	Manufacturer	Voltage per cell	Temperature code
D	TL-5930	Tadiran	3.6V	T4

Model GS050-ATEX-CE:

Battery Type	Part number	Manufacturer	Voltage per cell	Temperature code
C	PC1400	Duracell	1.5V	T 150 °C

Installation instructions

The manual provided with the equipment shall be followed in detail to assure proper and safe operation.

(16) **Test Report**

KEMA No. 211369200.

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

Special precautions shall be taken to prevent the Wind Speed Sensor - Model GS020 to be electrostatically charged.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 211369200.