



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx SIR 19.0060X** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-01-27

Applicant: **LCM Systems Ltd**
Unit 15, Newport Business park
Barry way, Newport
Isle of Wight
PO30 5G
United Kingdom

Equipment: **LCM4092 Wireless Telemetry Unit**

Optional accessory:

Type of Protection: **Intrinsically Safe**

Marking: Ex ib IIC T4 Gb
Ta = -20°C to +50°C

Approved for issue on behalf of the IECEx
Certification Body:

Neil Jones

Position:

Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom





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Manufacturer: **LCM Systems Ltd**
Unit 15, Newport Business park
Barry way, Newport
Isle of Wight
PO30 5G
United Kingdom

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/SIR/ExTR20.0013/00](#)

Quality Assessment Report:

[GB/SIR/QAR15.0012/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The LCM4092 Wireless Telemetry Unit is used in fixed installations for the wireless transmission of data from strain gauges. The equipment enclosure is comprised of an epoxy coated non-metallic enclosure, which is either connected directly to a load cell or via a metallic mounting disc or link cap. Within the enclosure is an Ex component certified telemetry transmitter module (Sira 15ATEX2334U). The module is powered by two series connected Ex ia certified AAA size cells (Baseefa 14ATEX0107U). Strain gauge connection is to a screw terminal block in the component certified module.

The use of the metallic mounting disc or link cap is dependent on the size and type of load cell. An alternative base plate may also be used for remote installation of the Telemetry Unit, with wired connection to the load cell strain gauges.

Output parameters at the strain gauge connections.

$U_0 = 5.5V$
 $I_0 = 2.25A$
 $P_0 = 1.25W$
 $C_0 = 15\mu F$
 $L_0 = 1.38\mu H$

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of the LCM4092 Wireless Telemetry Unit may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.
2. The batteries in the LCM4092 Wireless Telemetry Unit must not be changed when an explosive atmosphere is present.
3. Only Energizer L92 AAA size batteries are permitted for use in the LCM4092 Wireless Telemetry Unit.



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Equipment (continued):

Conditions of Manufacture

1. The LCM4092 Wireless Telemetry Unit incorporates a previously component certified telemetry module (IECEx SIR 15.0123U). It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with this device. The manufacturer shall inform Sira of any modifications to the device that may impinge upon the explosion safety design of the LCM4092 Wireless Telemetry Unit.
2. The LCM4092 Wireless Telemetry Unit may only be supplied by component certified AAA size cells (Baseefa 14ATEX0107U) It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with this cell type. The manufacturer shall inform Sira of any modifications to the cell certification that may impinge upon the explosion safety design of the LCM4092 Wireless Telemetry Unit.