



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 19ATEX2196X** Issue: **0**

4 Equipment: **LCM4092 Wireless Telemetry Unit**

5 Applicant: **LCM Systems Ltd.**

6 Address: **Unit 15,
Newport Business Park,
Barry Way,
Newport, Isle of Wight
PO30 5GY**

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

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-11:2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G

Ex ib IIC T4 Gb

Ta = -20°C to +50°C

Project Number 80005303

Signed: J A May

Title: Director of Operations

This certificate and its schedules may only be reproduced in its entirety and without change

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR, Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 19ATEX2196X
Issue 0

13 DESCRIPTION OF EQUIPMENT

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.

Uo = 5.5V Io = 2.25A Po = 1.25W Co = 15µF Lo = 1.38µH

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	27 January 2020	R80005303A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 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.

15.2 The batteries in the LCM4092 Wireless Telemetry Unit must not be changed when an explosive atmosphere is present.

15.3 Only Energizer L92 AAA size batteries are permitted for use in the LCM4092 Wireless Telemetry Unit.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

This certificate and its schedules may only be reproduced in its entirety and without change

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR, Netherlands

Certificate Annexe



Certificate Number: Sira 19ATEX2196X
Equipment: LCM4092 Wireless Telemetry Unit
Applicant: LCM Systems Ltd.

Issue 0

Drawing	Sheets	Rev.	Date (Stamp Date)	Title
LCM4092-ATEX_SHT1	1 of 2	-Initial	10 Jan 20	General assembly
LCM4092-ATEX_SHT2	2 of 2	-Initial	10 Jan 20	Marking, IECEx/ATEX
LCM4814-ATEX_SHT3	1 of 1	-Initial	10 Jan 20	ATEX Telemetry load Pin versions A & B
LCM4815-ATEX_SHT3	1 of 1	-Initial	10 Jan 20	ATEX Telemetry load Link
LCM4816-ATEX_SHT2	1 of 1	-Initial	10 Jan 20	Column Load Cell
LCM4818-ATEX	1 of 1	-Initial	10 Jan 20	ATEX Telemetry Enclosure
LCM4814-ATEX_SHT4	1 of 1	-Initial	10 Jan 20	Ex Label (Intrinsic safety)

This certificate and its schedules may only be reproduced in its entirety and without change

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR, Netherlands