



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx TRC 14.0011X

Issue No: 1

Certificate history:

Issue No. 1 (2017-11-16)

Issue No. 0 (2014-10-03)

Status: **Current**

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Date of Issue: **2017-11-16**

Applicant: **LCM Systems Ltd.,**
Unit 15, Newport Business Park,
Barry Way,
Newport,
Isle of Wight,
PO30 5GY
United Kingdom

Equipment: **42xx Series Strain gauge enclosures 4255, 4256, 4257**

Optional accessory:

Type of Protection: **Flameproof, Enclosure**

Marking:

Ex d IIC T6 Gb

Ex tb III C T85°C Db IP6x

T_{amb} -20°C to +55°C

*Approved for issue on behalf of the IECEx
Certification Body:*

Stephen Winsor

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Element Materials Technology
Unit 1 Pendle Place
Skelmersdale
West Lancashire
WN8 9PN





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Manufacturer: **LCM Systems Ltd.,**
Unit 15, Newport Business Park,
Barry Way,
Newport,
Isle of Wight,
PO30 5GY
United Kingdom

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*This Certificate **does not** indicate compliance with electrical 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/TRC/ExTR14.0011/00](#)

Quality Assessment Report:

[GB/SIR/QAR15.0012/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The 42xx series is a range of flameproof EPL Gb and dust ignition protected EPL Db strain gauge load measuring device enclosures which are constructed from either 304 or 316 stainless steel or stronger material dependent upon the application and utilise, cylindrical, threaded and welded flameproof joints. The range comprises of 4255 Load Measuring Pin, 4256 Link Load Cell and 4257 CPA Compression Load Cell.

All enclosures are supplied either with a suitably IECEx certified bulkhead connector or a cable and cable entry device already fitted.

Electrical Rating 0-27Vdc.

See Annex for further details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The M3 fasteners used to secure the end caps shall be high tensile stainless steel fasteners with a minimum grade of A2-70 or A4-70.
2. The M6 fasteners used internally to secure the link load cell shall be stainless steel grade A2 or A4.
3. No modifications shall be made to the flamepaths of the equipment without consultation with the manufacturer.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1:

This certificate has been issued to show that the ExCB responsible for the QAR has now been changed.

Annex:

[Annex to CoC IECEx TRC 14.0011X is 1.pdf](#)