



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 CML 15.0032X Issue No: 0 Certificate history:
Status: **Current** Page 1 of 3 Issue No. 0 (2015-07-12)

Date of Issue: **2015-07-12**

Applicant: **Elite Transducers Ltd**
5 & 6 Zephyr House
Calleva Park
Aldermaston
Berkshire
RG7 8JN
United Kingdom

Electrical Apparatus: **Range of Load Cells**
Optional accessory:

Type of Protection: **Type n**

Marking:
Ex nA IIC T6 Gc
Ta = -20°C to +60°C

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

M D Shearman FlinstMC

Position:

Managing Director

*Signature:
(for printed version)*

Date:

12/07/2015

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:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port
CH65 4LZ
United Kingdom





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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 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

*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/CML/ExTR15.0041/00](#)

Quality Assessment Report:

[GB/SIR/QAR08.0001/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The range of load cells are designed to be fitted into equipment such as weighing machines to measure the load applied to them.

See Annex for full Description and Conditions of Manufacture

CONDITIONS OF CERTIFICATION: YES as shown below:

See Annex for Conditions of Certification

Annex:

[Certificate Annex IECEx CML 15.0032X.pdf](#)

Annex to: IECEx CML 15.0032X Issue 0
Applicant: Elite Transducers Ltd
Apparatus: Range of Load Cells



Product Description

The SELB, DELB, DELP, CLC, SLL, LPMW, LPCC, SM60, SM66 and KFP Load Cells are designed to be fitted into equipment such as weighing machines to measure the load applied to them. The Load Cells are rated at 15V maximum and consist of a metal block with recesses into which are fitted a number of strain gauge arrangements, optional nickel resistors, terminal boards and amplifier boards. The electrical devices are encapsulated and sealed within the block by a metal cover. Connections to the Load Cells are made by integral cables or connector/cable arrangements. An alternative version allows the amplifier board to be fully encapsulated in a metal enclosure that may be fitted external to the Load Cell and is labelled '2 Wire 4-20mA Amplifier'.

The following Load Cell models are approved:

- SELB-RO-xxx
- SELB-RI-xxx
- DELB-RO-xxx
- DELB-RI-xxx
- DELP-EGW-xxx
- DELP-IGP-xxx
- DELP-IGP-AMP-xxx
- DELP-IGP-AMP-C-xxx
- DELP-DS1950-TB-xxx
- DELP-DB-xxx
- DELP-DB-AMP-xxx
- CLC-RO-xxx
- CLC-RO-AMP-xxx
- SLL-xxx
- SLL-AMP-xxx
- LPMW-SB-xxx
- LPMW-DB-xxx
- LPCC-xxx
- SM60-RO-xxx
- SM66-xxx
- KFP-SB-xxx
- KFP-DB-xxx

Where,

SELB = Single Ended Load Beam
DELB = Double Ended Load Beam
DELP = Double Ended Load Pin
CLC = Compression Load Cell
SLS = Stainless Load Link
LPMW = Low Profile Multi Webb
LPCC = Low Profile Compression Cell
SM60 = Silo Mounted
SM66 = Silo Mounted
KFP = Low Profile Multi Webb

RO = Rationalised Output
RI = Rationalised Input
EWG = Externally Gauged, Potted
IGP = Internally Gauged, Potted
DS1950 = Procon DS1950
TB = Triple Bridge
DB = Double Bridge
SB = Single Bridge

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Company Reg No. 8554022 VAT No. GB163023642





AMP = Amplifier

C = Connector

xxx = load cell capacity

Conditions of Manufacture

The following conditions relate to the manufacture of the equipment.

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. Each unit manufactured shall be subjected to the electric strength test of IEC 60079-15:2010 Clause 6.5.1. The equipment is to withstand without breakdown a test voltage of 500Vrms applied for 60 seconds between the electrical circuits and the equipment enclosure. Alternatively, a test voltage 20% higher may be applied for at least 100ms.

Conditions of Certification

The following conditions relate to safe installation and/or use of the equipment.

- i. The supply voltage of the equipment shall be protected such that transients are limited to a maximum of 119V as required by IEC 60079-15:2010 Clause 13. No such protection is required for the signal lines.
- ii. The cable(s) must be fixed when installed to prevent flexing. This is to comply with the temperature ratings of the cables used.
- iii. The metal enclosure is an isolated metal part capable of storing an incendive charge. If a charge-generating mechanism is present precautions should be taken to prevent the build-up of electrical charge, eg earth bonding of metal enclosure.