



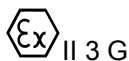
**Type Examination Certificate      CML 15ATEX4055X      Issue 0**

- 1    Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC
- 2    Equipment      Range of Load Cells
- 3    Manufacturer    Elite Transducers Ltd
- 4    Address          5 & 6 Zephyr House  
                         Calleva Park  
                         Aldermaston  
                         Berkshire  
                         RG7 8JN
  
- 5    The equipment is specified in the description of this certificate and the documents to which it refers.
- 6    Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of equipment intended for use in potentially explosive atmospheres given in Annex II of Directive 94/9/EC.  
  
      The examination and test results are recorded in the confidential reports listed in Section 12.
- 7    If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of certification (affecting correct installation or safe use). These are specified in Section 14.
- 8    This Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 94/9/EC Article 8 apply to the manufacture of the equipment or component.
- 9    Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2012 + A11:2013

EN 60079-15:2010

- 10    The equipment shall be marked with the following:



Ex nA IIC T6 Gc

Ta = -20°C to +60°C

M D Shearman FInstMC  
Managing Director



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## 11 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

AMP = Amplifier



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C = Connector

xxx = load cell capacity

## 12 Certificate history and evaluation Reports

Issue	Date	Associated report	Notes
0	12 July 2015	R426A/00	Issue of prime certificate

Note: Drawings that describe the equipment or component are listed in the Annex

## 13 Conditions of manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- 13.1 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.
- 13.2 Each unit manufactured shall be subjected to the electric strength test of EN 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.

## 14 Special Conditions for Safe Use (Conditions of Certification)

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

- 14.1 The supply voltage of the equipment shall be protected such that transients are limited to a maximum of 119V as required by EN 60079-15:2010 Clause 13. No such protection is required for the signal lines.
- 14.2 The cable(s) must be fixed when installed to prevent flexing. This is to comply with the temperature ratings of the cables used.
- 14.3 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.

## Certificate Annex

**Certificate Number** CML 15ATEX4055X  
**Equipment** Range of Load Cells  
**Manufacturer** Elite Transducers Ltd



The following documents describe the equipment or component defined in this certificate:

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
N-10005-GA	1 of 1	G	12/07/2015	Single Ended Load Beam – Rationalised Output Style
N-10006-GA	1 of 1	G	12/07/2015	Single Ended Load Beam – Rationalised Input Style
N-10009-GA	1 of 1	H	12/07/2015	General Assembly – Load Pin Internally Gauged, Potted
N-10010-GA	1 of 1	G	12/07/2015	General Assembly – Silo Mounted & SM60 Load Cells
N-10014-GA	1 of 1	H	12/07/2015	General Assembly – Load Pin Externally Gauged, Welded
N-10020-GA	1 of 1	G	12/07/2015	General Assembly – Silo Load Beam – Rationalised Input
10021-CD-30	1 of 1	B	12/07/2015	Circuit Diagram – 2 Wire Amplifier PCB-3331S
PCB-3331S	1 to 2	C	12/07/2015	Bill of Materials - 2 Wire Amplifier PCB Assembly
N-10024-GA	1 of 1	H	12/07/2015	Load Pin Internally Gauged + 2 Wire Amplifier, Potted
N-10029-SK	1 of 1	F	12/07/2015	Typical Load Pin Outlines 2t to 1400t Capacities
N-10030-SK	1 of 1	D	12/07/2015	Silo Mount Load Cell – Loading Assembly Dimensions
N-10031-SK	1 of 1	D	12/07/2015	Single Ended Load Beams – Typical Dimensions
N-10033-SK	1 of 1	C	12/07/2015	Silo Mount Load Cells – 1t to 120t Versions
N-10034-OL	1 of 1	E	12/07/2015	Outline – 2 Wire Amplifier Box Mounted
N-10036-GA	1 of 1	F	12/07/2015	Compression Load Cell + Amp 25t to 1000t Capacities
N-10037-OL	1 of 1	E	12/07/2015	Compression Load Cell 50t to 1000t Capacities
N-10038-GA	1 of 1	F	12/07/2015	Compression Load Cell – 25t to 1000t Capacities

## Certificate Annex



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Drawing No	Sheets	Rev	Approved date	Title
N-10044-GA	1 of 1	F	12/07/2015	Load Pin Internally Gauged + 2 Wire Amp, Potted, + Plug
N-10196-GA	1 to 2	L	12/07/2015	DELP ATEX/IECEX Approval Triple Bridge – Procon DS1950
N-10197-GA	1 to 2	K	12/07/2015	General Assembly – Load Pin Dual Bridge
N-10229-SA	1 of 1	A	12/07/2015	Gland End Cover Sub-Assy Triple Bridge – Procon DS1950
N-10232-SA	1 of 1	B	12/07/2015	Terminal Board Sub-Assy DS1950 Load Pin
N-10254-GA	1 to 2	G	12/07/2015	General Assembly – Load Pin Dual Bridge + Amplifiers
N-10255-GA	1 to 2	E	12/07/2015	SLL General Assembly Stainless Tension Load Link
N-10257-GA	1 to 2	E	12/07/2015	SLL+Amp General Assembly Stainless Load Link + Amplifier
N-10258-OL	1 of 1	D	12/07/2015	Outline – Tension Load Link Type SLL
N-10259-OL	1 of 1	D	12/07/2015	Outline – Load Link+Amplifier Type SSL + Amp
N-10329-GA	1 of 1	D	12/07/2015	General Assembly ATEX Approved Low Profile Cells
N-10330-GA	1 of 1	D	12/07/2015	General Assembly – Dual Bridge ATEX Approved Low Profile Cells
N-10331-WG	1 to 3	B	12/07/2015	Single Bridge Configuration ATEX Approved Low Profile Cells
N-10332-WG	1 to 3	B	12/07/2015	Dual Bridge Configuration ATEX Approved Low Profile Cells
N-10335-SK	1 of 1	B	12/07/2015	Dimensional Details ATEX Low Profile Multi Webb Cells
N-10336-SK	1 of 1	B	12/07/2015	Dimensional Details ATEX Low Profile Compression Cells
N-10337-GA	1 of 1	D	12/07/2015	General Assembly – ATEX Approved Low Profile Comp Cells
N-10338-WG	1 of 1	A	12/07/2015	Wiring Diagram ATEX Approved compression cell
N-10340-SK	1 of 1	B	12/07/2015	ATEX Connector/Cable Details Standard Load Cells

This certificate shall only be copied

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Version: 8.0 Approval: Approved

## Certificate Annex

**Certificate Number** CML 15ATEX4055X  
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Drawing No	Sheets	Rev	Approved date	Title
N-10341-SK	1 of 1	B	02/07/2015	ATEX Connector/Cable Details Load Cell + Integral Amplifier
N-10576-LA	1 of 1	B	02/07/2015	CML – Approval Label Large Style
N-10577-LA	1 of 1	B	02/07/2015	CML – Approval Label Small Style
N-10578-LA	1 of 1	B	02/07/2015	CML – ATEX Approval Label Small Style - Amplifier
N-10580-LA	1 of 1	B	02/07/2015	CML – Approval Label Elite Load Pins
N-10586-LA	1 of 1	B	02/07/2015	CML – ATEX Label Branded Distributors
N-10585-LA	1 of 1	A	02/07/2015	IEC Warning Label Self-adhesive