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 UL 20.0073X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2021-10-27) Issue 0 (2020-08-27)
Date of Issue:	2022-03-31		

Applicant: **Flintec Transducers (Pvt.) Ltd**
PO Box 24
Spur Rd 2
Phase 1
KEPZ
Katunayake
Sri Lanka

Equipment: **Intrinsically Safe Load Cells And Wireless Transmitter/Receiver, Models CC1, CC3, CC1W and CCWR**

Optional accessory:

Type of Protection: **Intrinsic Safety "ia"**

Marking: Ex ia IIC T4 Ga

-55 ºC ≤ Ta ≤ +80 ºC

Approved for issue on behalf of the IECEx Certification Body: **Katy A. Holdredge**

Position: **Senior Staff Engineer**

Signature: (for printed version)

Date: (for printed version) 2022-03-31

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:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America

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Certificate No.: **IECEx UL 20.0073X**

Date of issue: 2022-03-31 Issue No: 2

Manufacturer: **Flintec Transducers (Pvt.) Ltd**
PO Box 24
Spur Rd 2
Phase 1
KEPZ
Katunayake
Sri Lanka

Manufacturing locations: **Flintec Transducers (Pvt.) Ltd**
PO Box 24
Spur Rd 2
Phase 1
KEPZ
Katunayake
Sri Lanka

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 Reports:

US/UL/ExTR20.0077/00 US/UL/ExTR20.0077/01 US/UL/ExTR20.0077/02
US/UL/ExTR20.0077/03

Quality Assessment Report:

GB/EXV/QAR21.0013/00

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

CC1 and CC3: load cell with specified intrinsic safety field device parameters for connection to other equipment.

CCWR: battery powered radio transmitter with intrinsic safety power source parameter for connection of load cells.

CC1W (wireless load cell): a combination of the CCWR transmitter and CC1 load cell as a single item of equipment without external connection (other than the radio link), and hence no intrinsic safety parameters defined.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:
All models:

- Potential electrostatic charging hazard – see instructions.

Models CC1W and CCWR:

- The capacitance of exposed isolated metal parts was found to be 53.9 pF.

Models CC1 and CC3:

- The models CC1 and CC3 do not provide dielectric isolation according to IEC 60079-11 clause 6.3.13 between intrinsically safe circuits and earth/enclosure.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1: Changes to labels and instruction manuals unrelated to the IECEx certification.

Issue 2: Update company address. Minor editorial revisions to drawings.

Annex:

Annex to IECEx UL 20.0073X Issue 2.pdf

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PARAMETERS RELATING TO THE SAFETY

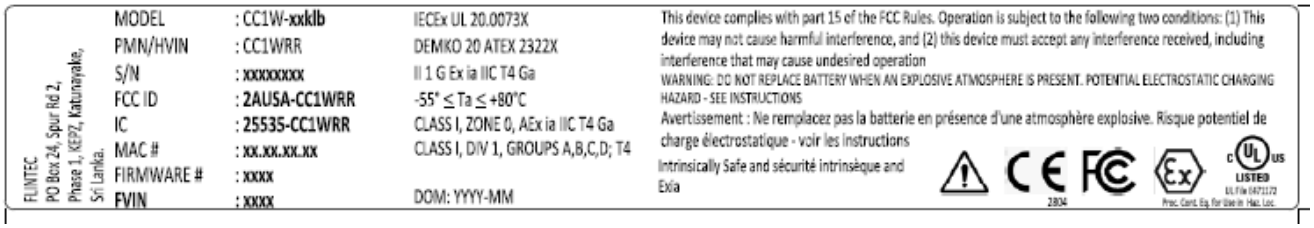
The models CC1W and CCWR are powered by single a single Lithium Thionyl Chloride D size cell.

CC1	CC3	CCWR
Ui = 28V	Ui = 28V	Uo = 3.9V
Pi = 0.7W	Pi = 0.7W	Io = 0.662A
Ci = 0 µF	Ci = 0 µF	Po = 0.55W
Li = 0 µF	Li = 0 µF	Co = 461.8 µF
		Lo = 0.8uH

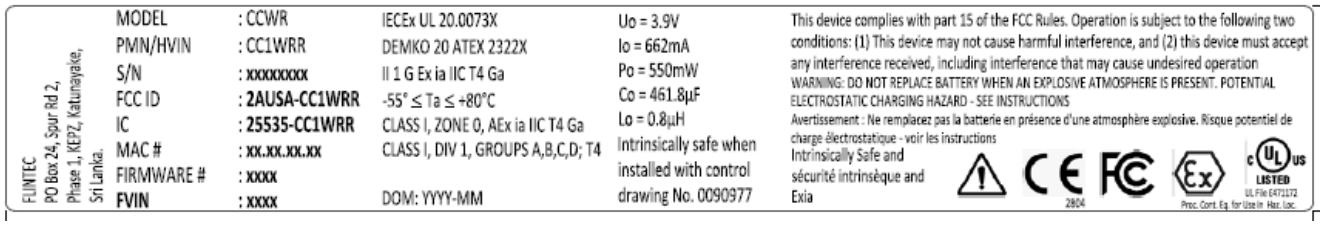
MARKING

Marking has to be readable and indelible; it has to include the following indications:

CC1W Wireless Load cell Label:



CCWR Battery powered radio transmitter Label:



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CC1W and CCWR battery compartment label:

CC1 and CC3 Load cell Label: