



# 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](http://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 °C ≤ Ta ≤ +80 °C

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

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

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





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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/ExTR20.0077/03](#)

[US/UL/ExTR20.0077/01](#)

[US/UL/ExTR20.0077/02](#)

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:

FLINTEC PO Box 24, Spur Rd 2, Phase 1, KEPZ, Katunayake, Sri Lanka.	MODEL	: CC1W- <b>xxk1b</b>	IECEx UL 20.0073X	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation WARNING: DO NOT REPLACE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT. POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS Avertissement : Ne remplacez pas la batterie en présence d'une atmosphère explosive. Risque potentiel de charge électrostatique - voir les Instructions Intrinsically Safe and sécurité intrinsèque and Exia
	PMN/HVIN	: CC1WRR	DEMKO 20 ATEX 2322X	
	S/N	: xxxxxxxx	II 1 G Ex ia IIC T4 Ga	
	FCC ID	: 2AUSA-CC1WRR	-55° ≤ Ta ≤ +80°C	
	IC	: 25535-CC1WRR	CLASS I, ZONE 0, AEx ia IIC T4 Ga	
	MAC #	: xx.xx.xx.xx	CLASS I, DIV 1, GROUPS A,B,C,D; T4	
	FIRMWARE #	: xxxxx	DOM: YYYY-MM	
FVIN	: xxxxx			

CCWR Battery powered radio transmitter Label:

FLINTEC PO Box 24, Spur Rd 2, Phase 1, KEPZ, Katunayake, Sri Lanka.	MODEL	: CCWR	IECEx UL 20.0073X	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation WARNING: DO NOT REPLACE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT. POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS Avertissement : Ne remplacez pas la batterie en présence d'une atmosphère explosive. Risque potentiel de charge électrostatique - voir les instructions Intrinsically Safe and sécurité intrinsèque and Exia
	PMN/HVIN	: CC1WRR	DEMKO 20 ATEX 2322X	
	S/N	: xxxxxxxx	II 1 G Ex ia IIC T4 Ga	
	FCC ID	: 2AUSA-CC1WRR	-55° ≤ Ta ≤ +80°C	
	IC	: 25535-CC1WRR	CLASS I, ZONE 0, AEx ia IIC T4 Ga	
	MAC #	: xx.xx.xx.xx	CLASS I, DIV 1, GROUPS A,B,C,D; T4	
	FIRMWARE #	: xxxxx	DOM: YYYY-MM	
FVIN	: xxxxx			



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CC1W and CCWR battery compartment label:



CC1 and CC3 Load cell Label:

 MODEL: CCx-xxk1b S/N: xxxxxxxx FSO: x.xxxxx mV/V Rated supply: 5-15 VDC Intrinsically safe when installed with control drawing No. 0061571 DOM: YYYY-MM Made in Sri Lanka	PO Box 24, Spur Rd 2, Phase 1, KEPZ, Katunayake, Sri Lanka. IECEx UL 20.0073X DEMKO 20 ATEX 2322X II 1 G Ex ia IIC T4 Ga -55° ≤ Ta ≤ +80°C CLASS I, ZONE 0, AEx ia IIC T4 Ga CLASS I, DIV 1, GROUPS A,B,C,D; T4 CLASS II, DIV 1, GROUPS E,F,G CLASS III WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS Avertissement : Risque potentiel de charge électrostatique - voir les instructions Intrinsically Safe and sécurité intrinsèque and Exia   2804   UL File E471172 Proc. Cont. Eq. For Use in this Loc.
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