

# EU-TYPE EXAMINATION CERTIFICATE



## Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- [1] EU-Type Examination Certificate Number: **DEMKO 20 ATEX 2322X Rev. 1**
- [2] Product: **Intrinsically Safe Load Cells and Wireless Transmitter/Receiver, Models CC1, CC3, CC1W and CCWR**
- [3] Manufacturer: **Flintec Inc.**
- [4] Address: **18 Kane Industrial Dr., Hudson, MA 01749 USA**
- [5] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [6] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- [7] The examination and test results are recorded in confidential report no. **US/UL/ExTR20.0077/02.**
- [8] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018                      EN 60079-11:2012**
- [9] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.
- [10] This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.
- [11] The marking of the product shall include the following:

**II 1 G    Ex ia IIC T4 Ga**

**Certification Manager**  
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

**Date of issue:** 2020-08-27

**Re-issued:** 2021-10-27

**Notified Body**    UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)



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## Schedule

### EU-TYPE EXAMINATION CERTIFICATE No.

#### DEMKO 20 ATEX 2322X Rev. 1

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Description of Product

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.

Performance testing

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015.

Temperature range

The ambient temperature range is -55 °C to +80 °C.

Electrical data

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

Intrinsically safe specifications:

CC1	CC3	CCWR
Ui = 28V	Ui = 28V	Uo = 3.9V
Pi = 0.7W	Pi = 0.7W	Io = 662mA
Ci = 0 µF	Ci = 0 µF	Po = 550mW
Li = 0 µF	Li = 0 µF	Co = 461.8µF
		Lo = 0.8uH

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this EU-Type Examination Certificate.

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Specific conditions of use:

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 EN 60079-11 clause 6.3.13 between intrinsically safe circuits and earth/enclosure

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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

