

CERTIFICATE OF CONFORMITY



- HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**
- Certificate No:** FM21CA0001X
- Equipment:**
(Type Reference and Name)
BK2-a, CC1-d, CPB-e, DSB2-h, DSB5-h, HM1-g, PBx-e, PC1-b, PC22-b, PC2-g, PC30-b, PC3-b, PC4-b, PC42-b, PC46-g, PC60-g, PC6-b, PC7-b, PCBB-g, PCBC-g, PCB-g, Q50-h, RC1-d, RC2-d, RC3-d, SB14-a, SB15-a, SB4-a, SB5-a, SB6-b, SB7-b, SB8-b, SB9-e, SLB-f, ZLB-b, and SB2-d Load Cells.
UB1-a, UB5-a, UB6-b, UB7-b, ULB-a, and ULG-i Force Transducers.
XT50. Extensometer.
- Name of Listing Company:** Flintec Inc.
- Address of Listing Company:** 18A Kane Industrial Avenue
Hudson, MA 01749
USA
- The examination and test results are recorded in confidential report number:
PR458790 dated 22nd December 2021
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
CAN/CSA-C22.2 No. 60079-0:2019, CAN/CSA-C22.2 No. 60079-11:2014,
CAN/CSA-C22.2 No. 61010-1:2015
- If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

Certificate issued by:

J.E. Marquedant
VP, Manager, Electrical Systems

22 December 2021

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



Canadian Certificate Of Conformity No: FM21CA0001X

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

Intrinsically Safe for Class I, II, III, Division 1, Groups A, B, C, D, E, F and G T4 in accordance with drawing 3-21457, hazardous locations. Ambient temperature range is -40°C to 40°C .

11. The marking of the equipment shall include:

IS for Class I, II, III, Division 1, Groups A, B, C, D, E, F and G; T4 Ta = -40°C to $+40^{\circ}\text{C}$; Entity per 3-21457

Entity Parameters: $V_{\text{Max}}(U_i) = 29.9\text{V}$, $I_{\text{Max}}(I_i) = 450\text{mA}$, $C_i = 0$, $L_i = 0$

12. **Description of Equipment:**

General – This family of products include Beam Load Cells, Single Point Load Cells, Compression Load Cells, Tension Load Cell Force Transducers, Extensometer Load Cells and Planar Beam Load cells. These products are available with different maximum capacities and are designed to be used in various kinds of industrial scales.

Construction – These products are of various construction for different applications. All products act as electro-mechanical sensors used to measure force or weight by transferring the applied force to a flow of electricity using strain gauges that are tightly bonded to the body of the equipment and connected in a bridge configuration. These products are made of high-grade steel or aluminum, to ensure predictable and uniform strain distribution. Enclosures are sealed by welding or improved potting. The electrical connection is by a permanently connected, 4-wire (standard) cable or a 6-wire (optional) cable.

Ratings – These products are intrinsically safe and powered by approved safety barriers. Entity parameters are as follows: $V_{\text{Max}}(U_i) = 29.9\text{V}$, $I_{\text{Max}}(I_i) = 450\text{mA}$, $C_i = 0$, $L_i = 0$

BK2-a, CC1-d, CPB-e, DSB2-h, DSB5-h, HM1-g, PBx-e, PC1-b, PC22-b, PC2-g, PC30-b, PC3-b, PC4-b, PC42-b, PC46-g, PC60-g, PC6-b, PC7-b, PCBB-g, PCBC-g, PCB-g, Q50-h, RC1-d, RC2-d, RC3-d, SB14-a, SB15-a, SB4-a, SB5-a, SB6-b, SB7-b, SB8-b, SB9-e, SLB-f, ZLB-b, and SB2-d Load Cells.
UB1-a, UB5-a, UB6-b, UB7-b, ULB-a, and ULG-i Force Transducers.
XT50 Extensometer.

a = Capacity: between 100kg and 10T; 200lb and 20klb; 1kN and 100kN.

b = Capacity: between 5kg and 500kg; 10lb and 1klb; 50N and 5kN.

d = Capacity: between 5 klb and 500 klb; 2 ton and 300 ton; 20 kN and 2.5 MN.

e = Capacity: any between 0.5 kg and 2500 kg; 1 lb and 5 klb; 5 N and 25 kN.

f = Capacity: between 200lb and 20klb; 100kg and 10000kg; 1kN and 100kN.

g = Capacity: between 20kg and 1000kg; 50lb and 2000lb; 200N and 10kN.

h = Capacity between 100kg and 100T; 200lb and 200klb; 1kN and 1MN.

i = Capacity between 100lbs and 10klbs.

x = Customer: F, M, N or W.

13. **Specific Conditions of Use:**

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FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

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1. The load cells type PC22, PC42, PC46, PC60 and ZLB have an aluminum enclosure. Avoid an ignition hazard due to impact or friction.
2. The load cells type BK2, PC1, PC22, PC42, PC46, PC60, SB5, SLB, UB5, ULB and ZLB have a plastic surface larger than 4cm². Avoid risk from electrostatic discharge.
3. The connection cables must be installed in a way that a risk from electrostatic discharge is avoided.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
22 nd December 2021	Original Issue.

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