

1 EU - Type Examination Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 22ATEX1192X Issue: 2

4 Equipment: Load cell CN3, SB5, BK2, PC1, PC22, PC30, PC42, PC46, PC60, SB9, SLB, ULB, PC3, PC6, PC7, PCB, Q50, RC1, RC3, SB14, SB4, SB6, SB8, UB1, UB6, UXT, VT1 PC4, PC2 and PC12

5 Manufacturer: Flintec Transducers (Pvt) Ltd

6 Address: PO Box 24, KEPZ Phase 1, Spur Rd 2, Katunayake 11450, Sri Lanka

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

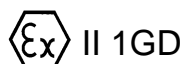
9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN IEC 60079-0: 2018 EN 60079-11:2012

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment shall include the following:



II 1GD

Ex ia IIC T4 Ga (Ta = -40 °C to +60 °C)

Ex ia IIIC T₂₀₀100°C Da (Ta = -40 °C to +60 °C)

Schedule

13 Description of Equipment or Protective System

The load cells type CN3 comprise the sensing gages, a board with the input connector in a housing for permanent installation. The enclosure comprises parts made in stainless steel.

The load cells type SB5, BK2, PC1, PC22, PC30, PC42, PC46, PC60, SB9, SLB, ULB and PC3 comprise the sensing gages, a board with the input connector in a housing for permanent installation. The enclosure comprises parts made in stainless steel or aluminium, depending on the model, some electronic parts are encapsulated, with some parts of the enclosure being formed by these encapsulated parts.

The load cells type PC6, PC7, PCB, Q50, RC1, RC3, SB14, SB4, SB6, SB8, UB1, UB6, UXT, VT1 PC4, PC2 and PC12 comprise the sensing gages, a board with the input connector in a housing for permanent installation. The enclosure comprises parts made in stainless steel, some internal electronic parts are encapsulated.

Limiting parameters:

$U_i = 30 \text{ V}$

$I_i = 300 \text{ mA}$

$P_i = 1.6 \text{ W}$ (all models excluding BK2 and VT1), 1.3 W (BK2 only), 1.5 W (VT1 only)

$C_i = 0 \text{ }\mu\text{F}$

$L_i = 0 \text{ mH}$

Integral cable:

- maximum mutual capacitance per meter = 150 pF/m
- maximum mutual inductance per meter = $1 \text{ }\mu\text{H/m}$

14 Descriptive Documents

14.1 Associated Report and Certificate History:

| Report Number | Cert Issue Date | Issue | Comment |
|-------------------------|-----------------|-------|---|
| R3569/A/1 | 20/04/2022 | 0 | Initial issue of the Prime Certificate |
| R3569/A/2, R3569/A/3 | 13/07/2022 | 1 | Inclusion of models SB5, BK2, PC1, PC22, PC30, PC42, PC46, PC60, SB9, SLB, ULB, PC3, PC6, PC7, PCB, Q50, SB14, SB4, SB6, SB8, UB1, UB6, UXT, VT1 PC4, PC2 and PC12. |
| R4140/A/1 | 13/09/2022 | 2 | Inclusion of models RC1 and RC3 |

14.2 Compliance Drawings:

| Title: | Drawing No.: | Rev. Level: | Date: |
|-------------------------------------|--------------|-------------|------------|
| Ex Schedule drawing – CN3 | 0102990 | 03 | 2022-04-08 |
| Ex Category Marking Label | 0108557 | 03 | 2022/06/08 |
| Permitted Gage type for Ex products | 0108772 | 02 | 2022/03/10 |
| Ex Schedule drawing- SB5 | 0103069 | 01 | 2022/04/29 |
| Ex Schedule drawing- BK2 | 0103072 | 01 | 2022/04/29 |
| Ex Schedule drawing-PC1 | 0104053 | 01 | 2022/04/29 |
| Ex Schedule drawing- PC22 | 0102988 | 01 | 2022/04/29 |
| Ex Schedule drawing- PC30 | 0103070 | 01 | 2022/04/29 |
| Ex Schedule drawing-PC42 | 0103648 | 01 | 2021/07/15 |
| Ex Schedule drawing-PC46 | 0103649 | 01 | 2022/04/29 |
| Ex Schedule drawing - PC60 | 0103269 | 02 | 2022/06/08 |
| Ex Schedule drawing- SB9 | 0103233 | 01 | 2022/04/29 |
| Ex Schedule drawing- SLB | 0103154 | 01 | 2022/04/29 |
| Ex Schedule drawing- ULB | 0103163 | 01 | 2022/04/29 |
| Ex Schedule drawing- PC3 | 0103187 | 02 | 2022/06/08 |

Certificate: ExVeritas 22ATEX1192X

Issue 2

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For help or assistance relating to this certificate, contact info@exveritas.com.

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Schedule

| Title: | Drawing No.: | Rev. Level: | Date: |
|------------------------------|--------------|-------------|------------|
| Ex Schedule drawing- PC6 | 0103153 | 01 | 2022/04/29 |
| Ex Schedule drawing- PC7 | 0103173 | 01 | 2022/04/29 |
| Ex Schedule drawing- PCB | 0103011 | 01 | 2022/04/29 |
| Ex Schedule drawing- Q50 | 0103181 | 01 | 2022/04/29 |
| Ex Schedule drawing- SB14 | 0102641 | 01 | 2022/04/29 |
| Ex Schedule drawing- SB4 | 0103031 | 01 | 2022/04/29 |
| Ex Schedule drawing- SB6 | 0103129 | 01 | 2022/04/29 |
| Ex Schedule drawing- SB8 | 0103130 | 01 | 2022/04/29 |
| Ex Schedule drawing- UB1 | 0103157 | 01 | 2022/04/29 |
| Ex Schedule drawing- UB6 | 0103161 | 01 | 2022/04/29 |
| Ex Schedule drawing- UXT | 0103191 | 01 | 2022/04/29 |
| Ex Schedule drawing- VT1 | 0103225 | 01 | 2022/04/29 |
| Schedule drawing- CN3 | 0102990 | 03 | 2022/04/08 |
| Ex Schedule drawing- PC4 | 0103650 | 01 | 2022/04/29 |
| Ex Schedule drawing- PC2 | 0103073 | 01 | 2022/04/29 |
| Ex Schedule drawing- PC12 | 0103074 | 01 | 2022/04/29 |
| EX Product Label | 0108554 | 02 | 2022/04/08 |
| Ex Schedule drawing- RC1 (*) | 0103091 | 02 | 2022/08/06 |
| Ex Schedule drawing- RC3 (*) | 0103086 | 02 | 2022/08/06 |

*Note: An * is included before the title of documents that are new or revised.*

15 Conditions of Certification

15.1 Special Conditions for Safe Use

- The models PC22, PC42, PC46 provide an enclosure made in aluminium, when the equipment is used on areas requiring EPL Ga, the equipment must be protected against impacts or friction that could cause mechanically generated sparks.
- The load cells enclosures include non-metallic parts that can accumulate electrostatic charges that in rare extreme condition can represent an ignition risk. Refer to the manufacturer safety instructions for details about how to mitigate this ignition risk.

15.2 Conditions for Use (Routine tests)

- None

16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.