

## 1 EU - Type Examination Certificate

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

3 Certificate Number: **ExVeritas 24ATEX1972X** Issue: 0

4 Equipment: PC1, SLB, PC6, PCB, RC3, SB14, SB4, SB8

5 Manufacturer: Flintec Transducers (Pvt) Ltd

6 Address: PO Box 24, Spur Rd 2, Phase 1, KEPZ, Katunayake, 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 60079-7:2015**

**EN 60079-31: 2014**

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 3G Ex ec IIC T4 Gc Ta = -40 °C to +60 °C

 II 2D Ex tb IIIC T<sub>200</sub>100 °C Db Ta = -40 °C to +60 °C

## Schedule

### 13 Description of Equipment or Protective System

The PC1, SLB, PC6, PCB, RC3, SB14, SB4, SB8 are strain gauge based load cells, to be fixed in a permanent position, often alongside two or three other load cells. The enclosure comprises a stainless steel housing. However, the SLB and PC1 have exposed encapsulated part/s. A permanently fixed 'flying cable' is connected to the load cell via a 'potted' cable gland. This has previously been certified for Ex ia IIC and IIIC. Refer EXV003569/A/2/3.

Equipment protection by increased safety "e" and Equipment dust ignition protection by enclosure "t".

### 14 Descriptive Documents

#### 14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R4395/A/1	2024/11/07	0	Initial issue of the Prime Certificate

#### 14.2 Compliance Drawings:

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
SLB load cell Ex ec/tb Schedule drawing	0121859	03	2024-09-24
PC1 load cell Ex Schedule drawing	0122253	03	2024-10-7
PC6 load cell Ex ec/tb Schedule drawing	0122162	04	2024-09-24
PCB load cell Ex ec/tb Schedule drawing	0122154	04	2024-09-24
RC3 load cell Ex ec/tb Schedule drawing	0122159	04	2024-09-24
SB14 load cell Ex ec/tb Schedule drawing	0121858	04	2024-09-24
SB4 load cell Ex ec/tb Schedule drawing	0122155	04	2024-09-24
SB8 load cell Ex ec/tb Schedule drawing	0121860	04	2024-09-24
Approved cable and cable gland assembly list	0121916	04	2024-10-07
Cable Gland Adaptor	0006697	02	2024-08-14
Nut for cable gland	0006798	02	2024-08-14
Rubber Grommet for 5.4mm Cable	0005552	03	2024-09-24
Silicone Rubber Grommet	0096702	02	2024-09-24
SLB stainless steel adaptor	0121841	01	2024-05-07
SLB stainless steel nut	0121056	01	2024-05-07
PG7 rubber Grommet for new ATEX version	0120839	02	2024-09-24
SB8 loadcell cable screw	0010335	01	2016-06-30
Cable Gland SB8	0010339	02	2024-09-24
Ex ec/tb and Ex ia Product label drawing	0121929	03	2024-07-08

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Product label positions list	0122585	01	2024-05-28
Ex ec/tb and Ex ia combined Equipment label drawing	0121918	06	2024-10-18
Safety critical information for user manual drawing	0123281	03	2024-10-18
Permitted Gage type for Ex products	0108772	02	2022-03-10
Encapsulation elastomeric material DOLPHON® CB-1109/785-D	JCD/ds/CB1109.10/03/07	2007-03-10	2007-03-10
Arlanxeo Krynac 3345 F synthetic rubber for cable gland parts	-	-	-
DMH340MVQ synthetic rubber for cable gland parts	-	-	-
User Manual	n/a	Rev.12.0.0	2024-10-14

### 15 Conditions of Certification

#### 15.1 Special Conditions for Safe Use

Mechanical impact to the non-metallic parts of PC1 may cause damage that invalidates types of protection Ex ec and Ex tb. The PC1 shall be installed in an enclosure or cover which will ensure that there is no risk of impact to the PC1. The level of impact protection is defined in IEC60079 Part 0 under 'Resistance to impact'.

Models PC1, SLB, have enclosures which present a potential electrostatic charging hazard in the hazardous area. A suitable method must be used to minimize this risk, such as:

- Control of environmental humidity to minimize the generation of static electricity.
- Protection from direct airflow causing a charge transfer.
- Touch with an insulating object.
- Means to continuously drain off electrostatic charges.

Ensure that exposed conductive parts of load cells are connected to the equipotential bonding system in accordance with IEC 60079-14.

Load cells with exposed encapsulation must not be exposed to direct sunlight or must be protected from direct sunlight when installed.

The power source for Ex ec/tb must be a CE, UKCA or UL compliant SELV supply, with a working maximum load cell supply voltage of 15.0 V.

The cable must be secured against pulling and bending for a distance of 25 mm from the cable entry point.

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### 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.

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