



# 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.:	<b>IECEx EXV 22.0006X</b>	Page 1 of 5	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 3	<a href="#">Issue 2 (2022-09-22)</a>
Date of Issue:	2024-11-08		<a href="#">Issue 1 (2022-07-20)</a>
Applicant:	<b>Flintec Group AB</b> Caxton House, Caxton Place Cardiff CF23 8HG <b>United Kingdom</b>		<a href="#">Issue 0 (2022-03-14)</a>
Equipment:	<b>Load cells 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</b>		
Optional accessory:	N/A		
Type of Protection:	<b>Intrinsic safety</b>		
Marking:	Ex ia IIC T4 Ga Ex ia IIIC T <sub>200</sub> 100°C Da (Ta = -40 °C to +60 °C)		

Approved for issue on behalf of the IECEx  
Certification Body:

**Sean Clarke CEng MSc MIET**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

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Units 16-18 Abenbury Way  
Wrexham Ind. Est.  
Wrexham LL 139UZ  
**United Kingdom**





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Manufacturer: **Flintec Transducers (Pvt) Ltd**  
Phase 1  
Spur Road 2  
KEPZ  
Katunayake 11420  
KEPZ  
**Sri Lanka**

Manufacturing  
locations:

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:

[GB/EXV/ExTR22.0013/00](#)  
[GB/EXV/ExTR22.0081/00](#)

[GB/EXV/ExTR22.0059/00](#)  
[GB/EXV/ExTR24.0090/00](#)

[GB/EXV/ExTR22.0060/00](#)

Quality Assessment Report:

[GB/EXV/QAR21.0013/02](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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:

$U_i = 30 \text{ V}$

$I_i = 350 \text{ mA}$

$P_i = 1.6 \text{ W}$  (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  $\mu\text{H/m}$

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- The models PC22, PC42, PC46 and PC60 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.
- Models SB5, BK2, PC1, PC22, PC30, PC42, PC46, PC60, SB9, SLB, ULB and PC3 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



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Change to increase input current from barrier

Introduction of non safety related components

Update to include different enclosures dimensions

Change to cable gland encapsulation which is not relied upon for intrinsic safety

Removal of some drawings which have been superseded

Update to special conditions of safe use.



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## Additional information:

### Technical Documents

Title:	Drawing No.:	Rev. Level:	Date:
*Ex Category Marking Label	0108557	07	2024/10/18
Permitted Gage type for Ex products	0108772	02	2022/03/10
*Ex Schedule drawing- SB5	0103069	02	2024/07/01
*Ex Schedule drawing- BK2	0103072	02	2024/07/01
*Ex Schedule drawing- PC22	0102988	02	2024/07/01
*Ex Schedule drawing- PC30	0103070	02	2024/07/01
*Ex Schedule drawing-PC42	0103648	02	2024/07/01
*Ex Schedule drawing-PC46	0103649	02	2024/07/01
*Ex Schedule drawing - PC60	0103269	03	2024/07/01
*Ex Schedule drawing- SB9	0103233	02	2024/07/01
*Ex Schedule drawing- ULB	0103163	02	2024/07/01
*Ex Schedule drawing- PC3	0103187	03	2024/07/01
*Ex Schedule drawing- PC7	0103173	02	2024/07/01
*Ex Schedule drawing- Q50	0103181	02	2024/07/01
*Ex Schedule drawing- SB6	0103129	02	2024/07/01
*Ex Schedule drawing- UB1	0103157	02	2024/07/01
*Ex Schedule drawing- UB6	0103161	02	2024/07/01
*Ex Schedule drawing- UXT	0103191	02	2024/07/01
*Ex Schedule drawing- VT1	0103225	02	2024/07/01
*Ex Schedule drawing- CN3	0102990	04	2024/07/01
*Ex Schedule drawing- PC4	0103650	02	2024/07/01
*Ex Schedule drawing- PC2	0103073	02	2024/07/01
*Ex Schedule drawing- PC12	0103074	02	2024/07/01
*Ex Schedule drawing- RC1	0103091	03	2024/07/01
*Ex ia and Ex ec tb product label	0121929	03	2024/07/08
*Label positions of Ex ec/tb and Ex ia products	0122585	01	2024/05/28
*Flintec load cells Ex ia and Ex ec/tb safety-critical info for user manual	0123281	03	2024/10/18
*Ex ia.ec/tb Schedule drawing- SLB	0121859	03	2024/09/24
*Ex ia/ec/tb Schedule drawing- PC1	0122253	03	2024/10/07
*Ex ia/ec/tb Schedule drawing- PC6	0122162	04	2024/09/24
*Ex ia/ec/tb Schedule drawing- PCB	0122154	04	2024/09/24
*Ex ia/ec/tb Schedule drawing- RC3	0122159	04	2024/09/24
*Ex ia/ec/tb Schedule drawing- SB14	0121858	04	2024/09/24
*Ex ia/ec/tb Schedule drawing- SB4	0122155	04	2024/09/24
*Ex ia/ec/tb Schedule drawing- SB8	0121860	04	2024/09/24
*Cable and cable gland list for ia ec tb	0121916	04	2024/10/07

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