IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BVS 09.0036X	issue No.:2
Status:	**Current**	
Date of Issue:	**2015-11-11**	Page 1 of 4

Certificate history:
Issue No. 2 (2015-11-11)
Issue No. 1 (2012-10-2)
Issue No. 0 (2009-7-6)

Applicant: **Flintec GmbH**
Bemannsbruch 9
74909 Meckesheim
Germany

Electrical Apparatus: **Load cell type ***-***-***-******
Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i"**

Marking:
Ex ia IIC T6/T5 Ga
Ex ia IIC T6/T5 Gb
Ex ia IIIC T100°C Da
Ex ia IIIC T100°C Db
IP67

Approved for issue on behalf of the IECEx Certification Body: Dr. F. Eickhoff

Position: Deputy Head of Certification Body

Signature: (for printed version)

Date: 2015-11-11

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA EXAM GmbH

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Manufacturer: **Flintec GmbH**
Bemannsbruch 9
74909 Meckesheim
Germany

Additional Manufacturing location (s):

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 electrical apparatus 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*This Certificate **does not** indicate compliance with electrical 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 Report:
DE/BVS/ExTR09.0034/02

Quality Assessment Report:

DE/BVS/QAR09.0005/06

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Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

Type code

Type ***-***-***-****
Instead of the *** numerals and letters will be inserted:
Type AAA-BBB-CCC-DDEF with
AAA = Type of the cell: BK2, PC1, PC2, PC2H, PC6, PC7, PC12, PC22, PC42, PC46, PC60, PCB, Q50, RC1, RC2, RC3, SB2, SB4, SB5, SB6, SB8, SB14, SLB, UB1, UB5, UB6, ULB or ZLB

BBB = load
CCC = accuracy class
DD = without marking = 4 wire, 6w = 6 wire connection
E = without marking = no shielding, s = shield connected
F = without marking = no coating, c = with coated cell body

Electrical parameters (not changed)

Voltage	Ui	DC 30	V
Power	Pi	4	W
Internal capacitance	Ci	0.16	nF/m
Internal inductance	Li	0.8	µH/m
Ambient temperature range	Ta		
for Temperature Class T6		-40 °C up to +45 °C	
for Temperature Class T5		-40 °C up to +60 °C	
for Dust application		-40 °C up to +60 °C	

CONDITIONS OF CERTIFICATION: YES as shown below:

1 The load cells type PC22, PC42, PC46, PC60 and ZLB have an aluminium enclosure; if they are used in areas, requiring Ga apparatus, 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 4 cm^2; if they are used in areas, requiring Ga apparatus, avoid risk from electrostatic discharge.

3 For use of the load cells in areas, requiring Ga Group IIC resp. Da/Db Group IIIC apparatus, the connection cables must be installed in a way that a risk from electrostatic discharge is avoided.

4 The load cells type ***-***-***-***c have a coated cell body; if they are used in areas, requiring Da or Db apparatus, avoid an ignition hazard due to propagating brush discharges.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Two new types have been added:
Type PC7-***-***-****
Type Q50-***-***-****