OIML Member State Denmark	**OIML Certificate No.** **R76/2006-A-DK2-2019.06**

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority

Name: **FORCE Certification A/S**
Address: Park Allé 345, 2605 Brøndby, Denmark
Person responsible: Leif Madsen

Applicant

Name: **Flintec GmbH**
Address: Bemannsbruch 9, 74909 Meckesheim, GERMANY

Manufacturer **Flintec GmbH**

Identification of the certified type *(the detailed characteristics will be defined in the additional pages)*

FT-111 / FT-611 / FT-112 / FT-612 / FT-111 panel / FT-112 panel

Designation of the module *(if applicable)*

Non-automatic electronic weighing indicator

This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 76-1, Edition (year): 2006

For accuracy class (if applicable**): III or IIII**

OIML Certificate No.
R76/2006-A-DK2-2019.06

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML reports:

Type examination report: No. 119-21728.10, dated 18 January 2019, that includes 67 pages
Type examination report: No. 119-21728.10-1, dated 18 January 2019, that includes 69 pages

Type evaluation report: No. 119-21728.90, dated 24 January 2019, that includes 3 pages

The technical documentation relating to the identified type is contained in documentation files

No. 118-21979 and T211947

OIML Certificate History

Revision No.	Date	Description of the modification
First issuance	08 May 2019	-

Identification, signature and stamp
The OIML Issuing Authority
FORCE Certification A/S

Date: 08 May 2019

Jens Hovgård Jensen
2019-05-08

Digitally signed by Jens Hovgård Jensen
jhje@force.dk
Certification Manager

Jens Hovgård Jensen
Certification Manager

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

Descriptive annex

Characteristics

Type:	FT-111 / FT-611 / FT-112 / FT-612 / FT-111 panel / FT-112 panel
Accuracy class:	III and IIII
Weighing range:	Single-interval, multi-interval (up to 3 intervals), multi-range (up to 3 ranges)
Maximum capacity (Max):	1 kg to 500 000 kg
Verification scale interval (e_i =):	≥ 0.1 g
Maximum number of Verification Scale Intervals (n_i):	≤ 10000 (class III), ≤ 1000 (class IIII)
Maximum subtractive tare effect:	-Max
Maximum additive tare effect: (only FT-111 Panel and FT-112 Panel)	≤ the maximum value possible according to OIML R76-1:2006 annex F for the actual weighing instrument configuration
Fractional factor:	p'i = 0.5
Minimum input voltage per VSI:	0.4 µV
Excitation voltage:	5 VDC
Circuit for remote sense:	present on the model with 7-terminal connector
Minimum input impedance:	43 Ohm
Maximum input impedance:	1200 Ohm (FT-111 Panel and FT-112 Panel), or 1100 Ohm
Mains power supply:	10-28 VDC (FT-111 Panel and FT-112 Panel), or 100-240 VAC, 50/60 Hz Internal rechargeable battery (optional).
Operational temperature:	-10 °C to +40 °C
Maximum 6-wire cable length between indicator and junction box:	9840 m/mm^2 (FT-111 Panel and FT-112 Panel), or 5841 m/mm^2

Software

The legally relevant software has version 01.xx, where x reflecting non-legally relevant changes. The software version is displayed as part of the power-up sequence.

Digital load cells

The following digital load cells are supported by FT-111 panel / FT-112 panel,

- BR030SD/BR032SD from Baykon
- RC3D from Flintec

Interfaces

- RS232
- RS485
- RS422 / RS485 (only FT-111 panel / FT-112 Panel)
- Ethernet
- USB
- Tilt switch input (optional)
- Analog and/or digital input/output (optional)
- MODbus RTU / Modbus TCP / Profinet / Prifibus / Ethercat / CCLink Powerlink / CCLink IE (optional and only FT-111 / FT-112 / FT-111 Panel / FT-112 Panel)
- Wifi (optional)
- Bluetooth (optional)

Devices

- Initial zero setting device (≤ 20% of Max)
- Semi-automatic zero setting device (≤ 4% of Max)
- Zero tracking device (≤ 4% of Max)
- Semi-automatic subtractive tare device
- Automatic subtractive tare device
- Preset subtractive tare device
- Semi-automatic additive tare device (only FT-111 panel / FT-112 Panel)
- Automatic additive tare device (only FT-111 panel / FT-112 Panel)
- Gross / Net display
- Extended resolution device
- Piece counting
- Manual check weighing
- Manual classifying
- Manual packing
- Manual filling
- Data storage device (optional internal SD card)
- Printing device
- Tilt switch device
- Gravity compensation device
- Stable equilibrium, Zero, Net and active range indicators.