
	 DANAK PROD Reg.no. 7026	FORCE Certification 
OIML Member State Denmark		OIML Certificate No. R61/2017-A-DK2-25.01
OIML CERTIFICATE ISSUED UNDER SCHEME A		
OIML Issuing Authority Name: FORCE Certification A/S Address: Park Allé 345, 2605 Brøndby, Denmark Person responsible: Per Rafn Crety		
Applicant Name: Flintec UK Ltd. Address: Caxton House Caxton Place, Pentwyn, Cardiff CF23 8HG United Kingdom		
Manufacturer Flintec Transducers Pvt Ltd. Katunayake, Sri Lanka		
Identification of the certified type <i>(the detailed characteristics will be defined in the additional pages)</i> EM100-F		
Designation of the module <i>(if applicable)</i> Automatic Gravimetric filling instrument		
<p>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):</p> <p>OIML R 61-1, Edition (year): 2017</p> <p>For accuracy class (if applicable): Ref(0.2)</p>		

**OIML Certificate No.
R61/2017-A-DK2-25.01**

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. DANAK-1918640, dated 6 December 2017, that includes 76 pages.

Type examination report: No. DANAK-1918824, dated 26 January 2018, that includes 60 pages

Type evaluation report: No. 124-34253.90.70, dated 13 May 2025, that includes 24 pages,

The technical documentation relating to the identified type is contained in documentation file:
124-34253

OIML Certificate History

Revision No.	Date	Description of the modification
Initial version	15 May 2025	-

Identification, signature and stamp

The OIML Issuing Authority

FORCE Certification A/S

Date: 15 May 2025

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:	EM100-F load cell digitizing unit.
Reference class:	Ref(0.2)
Accuracy class:	0.2 or 0.5 or 1 or 2
Weighing range:	Single-interval, multi-range or multi-interval
Maximum number of verification scale intervals (n):	10,000
Minimum input voltage per VSI (e_i):	0.3 μ V
Maximum capacity of interval (Max_i):	$n_i \times e_i$
Initial zero-setting range:	20 % of Max
Maximum tare effect:	100 % of Max
Fractional factor (p_i):	0.5
Excitation voltage:	5 VDC
Minimum input voltage from load cell:	0 mV
Maximum input voltage from load cell:	15 mV
Circuit for remote sense:	Active (see below)
Minimum input impedance:	58 Ohm
Maximum input impedance:	1100 Ohm
Load cell linearization feature:	None
Connecting cable to load cell(s):	See Section 3.1.1
Maximum time between automatic zero-setting:	100 minutes ¹⁾
Minimum warm-up time:	15 minutes ¹⁾
Supply voltage:	9 - 32 VDC, not to be supplied from DC Mains
Operating temperature range:	Min / Max = -15 °C / +55 °C
Peripheral interface(s):	See Section 4

MinFill's dependency of accuracy class and d in g for $d = 0.3 \mu\text{V}$.¹⁾

d [g]	Accuracy class							
	X(0.2)		X(0.5)		X(1)		X(2)	
	d	[kg]	d	[kg]	d	[kg]	d	[kg]
0.1	56	0.0056	22	0.0022	11	0.0011	6	0.0006
0.2	56	0.0112	22	0.0044	11	0.0022	6	0.0012
0.5	56	0.028	22	0.011	11	0.0055	6	0.0030
1	111	0.111	22	0.022	11	0.011	6	0.006
2	167	0.334	22	0.044	11	0.022	6	0.012
5	333	1.665	67	0.335	22	0.11	6	0.030
10	333	3.33	133	1.33	33	0.33	11	0.110
20	333	6.66	133	2.66	67	1.34	17	0.340
50	500	25	133	6.65	67	3.35	33	1.65
100	500	50	200	20	67	6.7	33	3.3
200	500	100	200	40	100	20	33	6.6
≥ 500	500		200		100		50	

¹⁾ Values applies for single fill only.

Software

The software version may be viewed by sending “FFV” to the unit, which responds with ‘Vxx.yy’ or ‘V:xx.yy.zz’.

where xx denotes the legally relevant code, yy denotes the major non-legally relevant code, and zz denotes the minor non-legally relevant code.

The tested software version is: ‘V01.01’.

The software changes from V01.01 to V02.00.00 have been examined.

Devices

- Initial zero-setting
- Semi-automatic zero-setting
- Zero tracking
- Semi-automatic subtractive tare
- Preset tare
- Automatic tare
- Event counter (TAC)

Peripheral interfaces

- RS485
- RS232
- CANopen
- 2 logic level inputs
- 2 open-drain outputs

The peripheral interfaces are characterised “Protective interfaces” according to paragraph 8.4 in the Directive.