



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Certificate of Approval NMI S525

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

Flintec Model FT-11D Digital Indicator

submitted by Flintec GmbH
Bemannsbruch 9
74909 Meckesheim Germany

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated July 2004.

This approval becomes subject to review on **1/05/22**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	1/07/09
1	Pattern approved – certificate issued	24/07/09
2	Pattern amended – notification of change issued	25/02/10
3	Pattern reviewed & updated – certificate issued	27/04/17

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S525' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S525' in addition to the approval number of the instrument, and only by persons authorised by the submittor.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificates No S1/0/A or No S1/0B.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.



Dr A Rawlinson

TECHNICAL SCHEDULE No S525

1. Description of Pattern **approved on 1/07/09**

A Flintec model FT-11D digital mass indicator which is approved for use with NMI-approved Flintec RC3D digital load cells only. The indicator may be configured to form part of:

- A single-interval weighing instrument; or
- A multiple range weighing instrument with up to two weighing ranges. The changeover between weighing ranges is automatic.

Note: The maximum number of verification scale intervals (VSI) applicable is determined by the number of VSI given in the approval documentation for the load cells used.

The indicator may be in any of the enclosures shown in Figure 1.

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices (see clause **1.5 Interfaces**).

1.1 Display Check

A display check is initiated whenever power is applied.

1.2 Zero Setting

A zero-tracking device may be fitted.

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.3 Tare

A semi-automatic subtractive taring device of up to the maximum capacity of the instrument may be fitted.

1.4 Power Supply

The indicator operates from 230 V mains AC power.

1.5 Interfaces

The indicator may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. The interfaces shall comply with clause 5.3.6 of NMI R76 (the basic intent of which is that it shall not be possible to alter weighing results via the interfaces).

Any measurement data output from the instrument or its interfaces shall only be used for trade in compliance with NMI General Supplementary Certificates No S1/0/A or No S1/0B (in particular in regard to the data and its format).

Indications other than the indications of measured mass (i.e. gross, tare, net, totals) displayed either on the indicator or on an auxiliary or peripheral device, are not for trade use.

Serial interface options (e.g. RS 232) may be fitted.

1.6 Sealing Provision

The indicator is sealed by preventing access within the indicator housing. This may be achieved by applying destructible adhesive labels on opposite sides of a join in the indicator housing.

1.7 Verification Provision

Provision is made for the application of a verification mark.

1.8 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Flintec GmbH		
Indication of accuracy class	Ⓜ		
Maximum capacity	<i>Max</i>	kg	#1
Minimum capacity	<i>Min</i>	kg	#1
Verification scale interval	<i>e</i> =	kg	#1
Maximum subtractive tare	<i>T</i> = -	kg	#2
Serial number of the instrument		
Pattern approval number for the indicator	NMI S525		
Pattern approval number for other component		#3

#1 These markings shall also be shown near the display of the result if they are not already located there.

#2 This marking is required if *T* is not equal to *Max*.

#3 May be located separately from the other markings.

In addition, instruments not greater than 100 kg capacity carry a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

Note: For multiple range instruments, the maximum capacity, minimum capacity and verification scale interval for each range shall be marked, with an indication of the range to which they apply, e.g.

Range	1	2
<i>Max</i> kg kg
<i>Min</i> kg kg
<i>e</i> = kg kg

TEST PROCEDURE

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE S525 – 1



Flintec Model FT-11D Digital Indicator
(Alternative Enclosures)

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