



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Supplementary Certificate of Approval NMI S355

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.

Teraoka Seiko Model DI-516 Digital Indicator

submitted by W. W. Wedderburn Pty Ltd
101 Williamson Road
Ingleburn NSW 2565

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 **1/12/21**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	18/03/98
1	Pattern approved – certificate issued	10/07/98
2	Pattern amended (technical schedule) – notification of change issued	10/07/98
3	Pattern reviewed – notification of change issued	20/10/04
4	Pattern reviewed and amended (address & test procedure) – notification of change issued	19/11/10
5	Pattern reviewed & updated – certificate issued	13/03/17

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI (or NSC) S355' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI (or NSC) S355' 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.

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 S355

1. Description of Pattern

approved on 18/03/98

A Teraoka Seiko model DI-516 class III digital indicator (Figure 1 and Table 1) which is approved for use as a single or as a multi-interval indicator.

This indicator may be configured as a single range instrument approved for use with up to 3000 verification scale intervals (vsi), or as a multi-interval instrument in which case it is approved for use with up to 3000 vsi per range.

TABLE 1 — Specifications

Maximum number of verification scale intervals	3000 or 3000 per range
Minimum sensitivity	1.33 μV /scale interval
Excitation voltage	10 V DC
Maximum excitation current	150 mA

1.2 Zero

Zero is automatically corrected to within $\pm 0.25e_1$ whenever the instrument comes to rest within $0.5e_1$ of zero.

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.

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

1.2 Tare

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

A keyboard-entered preset subtractive taring device, having a capacity of up to the maximum capacity (*Max*) of single interval instruments and having a capacity of up to the maximum capacity of the first range (*Max₁*) for multi-interval instruments, may also be fitted.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Sealing Provision

Provision is made for the calibration adjustment to be sealed by means of a destructible label across the join of the casing halves.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Descriptive Markings and Notices

Instruments are marked with the following data, together in one location, in the form shown at right:

Manufacturer's mark, or name written in full
Name or mark of manufacturer's agent
Indication of accuracy class	Ⓜ
Maximum capacity (#)	Max kg *
Minimum capacity (#)	Min kg *
Verification scale interval	e = kg *
Serial number of the instrument
Pattern approval number for the instrument	NMI/NSC S355

(#) Instruments configured with multi-intervals are marked as below:

Maximum capacity	Max/..... *
Verification scale interval	e =/..... *

* These markings are also shown near the display of the result if they are not already located there.

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

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*.

For multi-interval and multiple range instruments with verification scale intervals of $e_1, e_2 \dots$, apply e_1 for zero adjustment, and maximum permissible errors apply $e_1, e_2 \dots$, as applicable for the load.

FIGURE S355 – 1



Teraoka Seiko Model DI-516 Digital Indicator

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