



Australian Government
**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Cancellation
Supplementary Certificate of
Approval No S272A

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

This is to certify that the approval for use for trade granted in Approval No 6/18/32 in
respect of the

Teraoka Seiko Model DI-10 Digital Indicator

submitted by W W Wedderburn Pty Ltd
90 Parramatta Road
SUMMER HILL NSW 2130

has been cancelled in respect of new instruments as from 1 April 2005.

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

A handwritten signature in black ink, appearing to be 'J. H. T.', is located in the bottom right corner of the document.



National Standards Commission

Supplementary Certificate of Approval

No S272A

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

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

Teraoka Seiko Model DI-10 Digital Indicator

submitted by W W Wedderburn Pty Ltd
 90 Parramatta Road
 Summer Hill NSW 2130.

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 Certificate is issued upon completion of a review of NSC approval No S272.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 March 2003, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No S272A and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S272A in addition to the approval number of the instrument.

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 Commission 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 the Commission's Document 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.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

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

DESCRIPTIVE ADVICE

Pattern: approved 6 February 1998

- A Teraoka Seiko model DI-10 digital indicator.

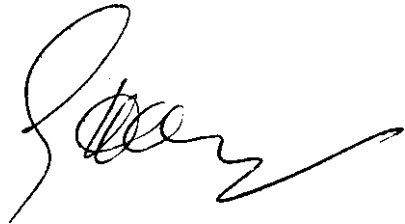
Technical Schedule No S272A describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S272A dated 11 March 1998
Technical Schedule No S272A dated 11 March 1998 (incl. Table 1 and
Test Procedure)
Figure 1 dated 11 March 1998

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, consisting of a large, stylized 'J' followed by a series of loops and a long, sweeping horizontal stroke at the end.

TECHNICAL SCHEDULE No S272A

Pattern: Teraoka Seiko Model DI-10 Digital Indicator.

Submitter: W W Wedderburn Pty Ltd
90 Parramatta Road
Summer Hill NSW 2130.

1. Description of Pattern

A Teraoka Seiko model DI-10 digital indicator (Table 1) which is approved for use with up to 3000 verification scale intervals and which may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.

Instruments may be powered by a mains adaptor power supply or may be battery operated.

Instruments are as shown in Figure 1 or without the integral printer.

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e$ whenever power is applied and whenever the instrument comes to rest within $0.5e$ 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 and/or a keyboard-entered preset subtractive taring device, each having a capacity of up to the maximum capacity of the instrument, may be fitted.

1.3 Display Check

A display check is initiated whenever the ON/OFF button is pressed.

1.4 Set Point

Instruments may be fitted with a set point facility.

1.5 Management Function

Instruments may be fitted with a counting management function, which is not approved for trade use, in which case the keyboard is different to that shown in Figure 1.

1.6 Sealing Provision

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

1.7 Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

1.8 Markings

Instruments carry the following markings, in the form shown at right:

Manufacturer's mark, or name written in full	
Indication of accuracy class	Ⓜ
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *
Serial number of the instrument	
Pattern approval mark for the indicator	NSC No S272A

* 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.

TABLE 1 — Specifications

Maximum number of verification scale intervals	3000
Minimum sensitivity	2.8 μ V/scale interval
Excitation voltage	5 V DC
Maximum excitation current	60 mA

TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the instrument to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads, m , expressed in verification scale intervals, e , are:

- $\pm 0.5 e$ for loads $0 \leq m \leq 500$;
- $\pm 1.0 e$ for loads $500 < m \leq 2\,000$; and
- $\pm 1.5 e$ for loads $2\,000 < m \leq 10\,000$.



National Standards Commission
Notification of Change
Supplementary Certificate of Approval No S272A
Change No 1

The following change is made to the approval documentation for the

Teraoka Seiko Model DI-10 Digital Indicator

submitted by W W Wedderburn Pty Ltd
90 Parramatta Road
Summer Hill NSW 2130.

In Technical Schedule No S272A dated 11 March 1998, the reference to *Minimum sensitivity* given in Table 1 should now be amended to read:

“Minimum sensitivity 1.5 μ V/scale interval”

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

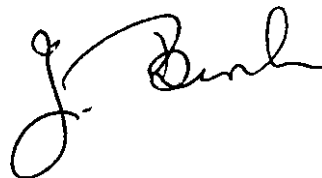


FIGURE S272A - 1



Teraoka Seiko Model DI-10 Digital Indicator