



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation
Supplementary Certificate of Approval
No S396

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 respect of the

Teraoka Seiko Model DI-28SS 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 July 2012.

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 'M. J. ...', written over a horizontal line.



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Supplementary Certificate of Approval

No S396

Issued 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

Teraoka Seiko Model DI-28SS 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.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 December 2006, and then every 5 years thereafter. 

Instruments purporting to comply with this approval shall be marked NSC No S396 and only by persons authorised by the submitter.

Instruments incorporating a digital indicator purporting to comply with this approval shall be marked NSC No S396 in addition to the approval number of the instrument.

It is the submitter'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 NSC 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.

The Commission reserves the right to examine any instrument or digital indicator 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 28 November 2001

- A Teraoka Seiko model DI-28SS digital indicator.

Technical Schedule No S396 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S396 dated 7 January 2002
Technical Schedule No S396 dated 7 January 2002 (incl. Table 1 and Test Procedure)
Figures 1 and 2 dated 7 January 2002

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



TECHNICAL SCHEDULE No S396

Pattern: Teraoka Seiko Model DI-28SS Digital Indicator.

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

1. Description of Pattern

A Teraoka Seiko model DI-28SS single interval digital indicator (Figure 1 and Table 1) approved for use with up to 3000 verification scale intervals. Instruments may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.

Instruments are powered by either a rechargeable internal battery, or by one of the following external mains adaptors:

- a Wedderburn model 12V DC 1A;
- a Wedderburn model 12V DC 2A; or
- a Tortech model EPA-121DA-12.

Alternatively, the mains adaptor may be fitted internally.

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e$ 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 non-automatic keyboard-entered subtractive pre-set taring device may be fitted. Each device has a capacity of up to the maximum capacity of the instrument.

When the pre-set tare device is fitted, instruments are marked NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Sealing Provision

Provision is made for the access to the calibration adjustment of the indicator to be sealed by means of destructible adhesive labels sealing the back of the instrument to the main instrument casing (Figure 2).

1.5 Verification/Certification Provision

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

1.6 Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Teraoka Seiko, Japan
Name or mark of manufacturer's agent	W W Wedderburn Pty Ltd
Indication of accuracy class	Ⓜ
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *
Maximum subtractive tare	T = - kg
Serial number of the instrument
Pattern approval mark for the indicator	NSC No S396

* 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.

When the pre-set tare device is fitted, instruments are marked 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	2.0 μ V/scale interval
Excitation voltage	10 V DC
Maximum excitation current	120 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 Uniform Test Procedures.

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:

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



Australian Government
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Bradfield Road, West Lindfield NSW 2070

Notification of Change
Supplementary Certificate of Approval No S396
Change No 1

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

The following changes are made to the approval documentation for the
Teraoka Seiko Model DI-28SS Digital Indicator

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

In Supplementary Certificate of Approval No S396 dated 7 January 2002;

1. The Condition of Approval referring to the review of the approval should be amended to read:

 “This approval becomes subject to review on 1 December 2011, and then every 5 years thereafter.”
2. The FILING ADVICE should be amended by adding the following:

 “Notification of Change No 1 dated 1 August 2007”

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. G. T.', is located in the bottom right corner of the page.

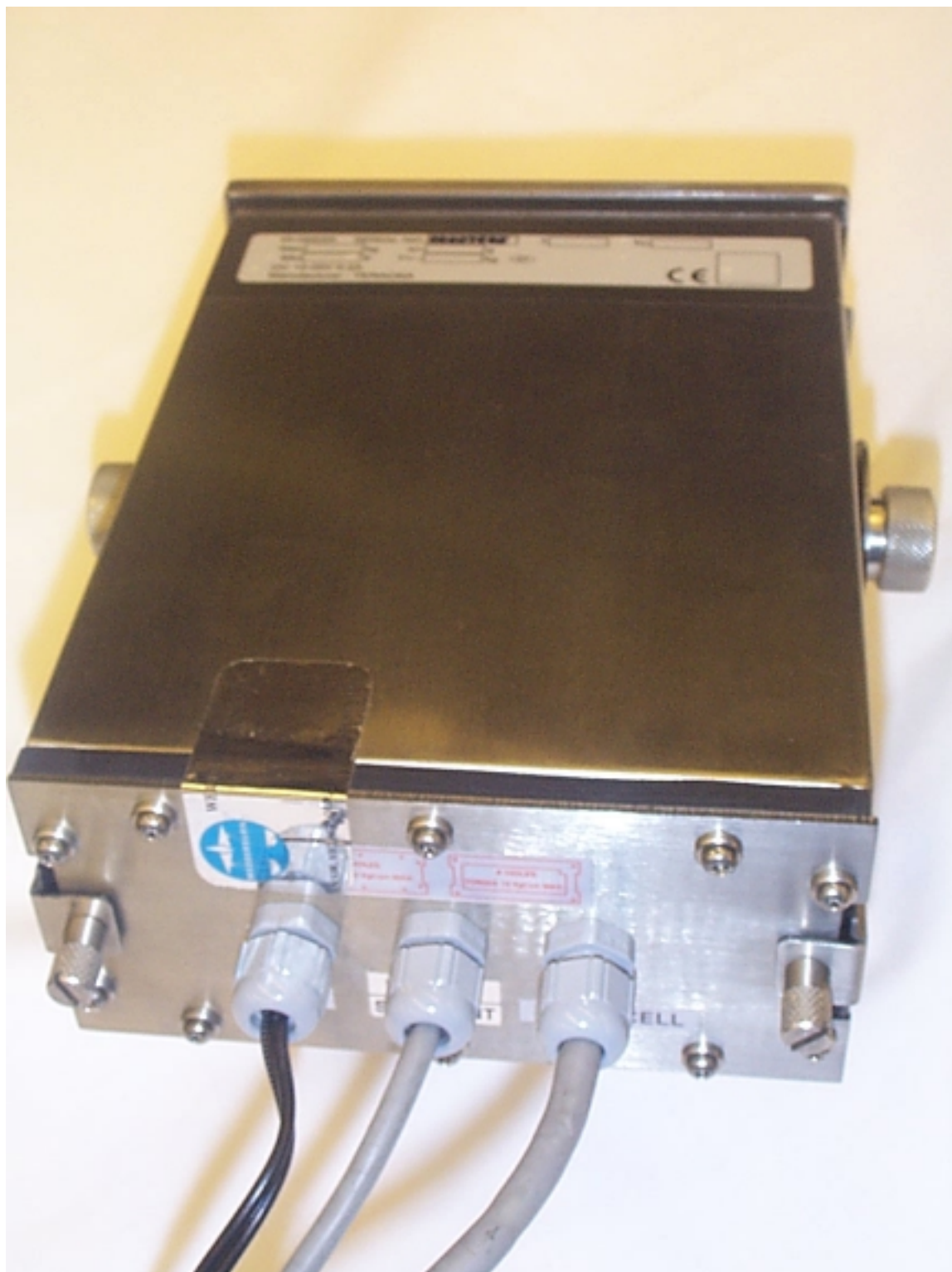
FIGURE S396 - 1



Teraoka Seiko Model Digi DI-28SS Digital Indicator

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7 January 2002

FIGURE S396 - 2



Showing Sealing