S344
7 November 2003

Australian Government

National Standards Commission

12 Lyonpark Road, North Ryde NSW 2113 Australia

Cancellation

Supplementary Certificate of Approval No S344

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

Salter Weigh-Tronix Model WI-150 Digital Indicator

submitted by Salter Weigh-tronix Pty Ltd
20 Terracotta Drive
Blackburn VIC 3130

has been cancelled in respect of new instruments as from 1 December 2003.

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.

National Standards Commission

Supplementary Certificate of Approval

No S344

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

Salter Weigh-Tronix Model WI-150 Digital Indicator

submitted by Salter Weigh-tronix Pty Ltd
20 Terracotta Drive
Blackburn VIC 3130.

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 June 2002, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No S344 and only by persons authorised by the submittor.

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Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S344 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 30 May 1997

- A Salter Weigh-Tronix model WI-150 digital indicator.

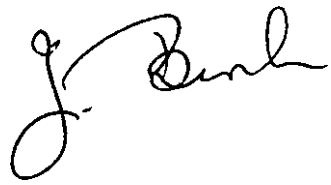
Technical Schedule No S344 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S344 dated 15 July 1998
Technical Schedule No S344 dated 15 July 1998 (incl. Table 1 and Test Procedure)
Figure 1 dated 15 July 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.



TECHNICAL SCHEDULE No S344

Pattern: Salter Weigh-Tronix Model WI-150 Digital Indicator.

Submittor: Salter Weigh-tronix Pty Ltd
20 Terracotta Drive
Blackburn VIC 3130.

1. Description of Pattern

A Salter Weigh-Tronix model WI-150 digital indicator (Figure 1 and Table 1) which is approved for use with up to 5000 verification scale intervals and which may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.

1.1 Zero

Zero is automatically corrected to within ±0.25e whenever power is applied and whenever the instrument comes to rest within 0.5e of zero.

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 pre-set taring device may be fitted. The devices are both subtractive and have a capacity of up to maximum capacity of the instrument.

1.3 Linearisation Facility

Instruments are fitted with a single-point programmable linearisation correction facility.

1.4 Display Check

A display check is initiated whenever power is applied.

1.5 Sealing Provision

Provision is made for the calibration adjustment to be sealed by means of the sealing screws provided on the front and rear of the indicator.

1.6 Verification/Certification Provision

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

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1.7 Markings

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

Manufacturer's mark, or name written in full	
Indication of accuracy class	(III)
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 S344

* These markings shall also be 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	5000
Minimum sensitivity	1.0 μV/scale interval
Excitation voltage	5 V DC
Maximum excitation current	114 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 $2\,000 < m \leq 10\,000$.

FIGURE S344 - 1

Salter Weigh-Tronix Model WI-150 Digital Indicator