



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 6/5/14
Change No 3

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
Salter Weigh-Tronix Model 233 Weighing Instrument

submitted by Avery Weigh-Tronix
Foundry Lane
Smethwick
West Midlands B662LP UNITED KINGDOM.

- A. In Certificate of Approval No 6/5/14 dated 14 August 1998:
- (i) The Condition of Approval referring to the review of the approval should be amended to read:
"This approval becomes subject to review on 1 August 2012, and then every 5 years thereafter."
 - (ii) The FILING ADVICE should be amended by adding the following:
"Notification of Change No 2 dated 19 November 2004
Notification of Change No 3 dated 13 March 2009"
 - (iii) In the DESCRIPTIVE ADVICE, the description of the pattern should be amended by adding the following:
"May also be known as Avery Weigh-Tronix instruments of the same model."
- B. In Certificate of Approval No 6/5/14 and its Technical Schedule both dated 14 August 1998, all references to the name of the submitter or manufacturer should be amended to read:
"Avery Weigh-Tronix **Ltd**"
- C. In Technical Schedule No 6/5/14 dated 14 August 1998, clause 1. **Description of Pattern**, should be amended by adding the following:
"May also be known as Avery Weigh-Tronix instruments of the same model."

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.', written in a cursive style.



National Standards Commission

Certificate of Approval

No 6/5/14

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 233 Weighing Instrument

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 August 2002, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/5/14 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 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 Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 1 July 1992
re-approved 21 May 1998

- A Salter Weigh-Tronix model 233 freely-suspended self-indicating weighing instrument of 5 kg maximum capacity. May also be known as Wedderburn model SA 233.

Variant: approved 1 July 1992
re-approved 21 May 1998

1. In certain other capacities up to 100 kg maximum capacity.

Variant: approved 21 May 1998

2. A model 235-10X. May also be known as Wedderburn model SA 235-10X.

Technical Schedule No 6/5/14 describes the pattern and variants 1 & 2.

FILING ADVICE

Certificate of Approval No 6/5/14, its Technical Schedule and Figures 1 and 2, all dated 17 November 1992, are superseded by this Certificate, Technical Schedule and Figures 1 to 3, and may be destroyed.

The documentation for this approval now comprises:

Certificate of Approval No 6/5/14 dated 14 August 1998
Technical Schedule No 6/5/14 dated 14 August 1998 (incl. Test
Procedure)
Figures 1 to 3 dated 14 August 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, appearing to read 'J. Bush', written in a cursive style.

TECHNICAL SCHEDULE No 6/5/14

Pattern: Salter Weigh-Tronix Model 233 Weighing Instrument



Submitter: Salter Weigh-Tronix Pty Ltd
20 Terracotta Drive
Blackburn VIC 3130.

1. Description of Pattern



A Salter Weigh-Tronix model 233 freely-suspended self-indicating weighing instrument (Figure 1) of 5 kg maximum capacity with a verification scale interval of 0.01 kg. Instruments may also be known as Wedderburn model SA 233.

1.1 Indicating Mechanism

A single or double-sided dial indicator is used. Indications below Minimum Capacity are clearly differentiated.

1.2 Resistant Mechanism (Figure 2)

The resistant mechanism consists of two springs in parallel between two cross-arms. Two pneumatic dashpots are fitted.

1.3 Zero

Zero is set by means of a tool-operated adjusting screw.

1.4 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 instrument	NSC No 6/5/14

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

1.5 Verification/Certification Provision

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

1.6 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of either a lead plug through the dial onto the mainframe of the instrument or destructible labels across the dial cover onto the side of the instrument.

2. Description of Variants

2.1 Variant 1

In other capacities as listed in Table 1.

TABLE 1

Maximum Capacity	Verification Scale interval
10 kg	0.02 kg
25 kg	0.05 kg
50 kg	0.10 kg
100 kg	0.20 kg

2.2 Variant 2

In an alternative housing and known as a model 235-10X (Figure 3).

Instruments may also be known as Wedderburn model SA 235-10X.

TEST PROCEDURE

Instruments should be tested 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 $0 \leq m \leq 500$; and
- $\pm 1.0 e$ for loads $500 < m \leq 2\,000$.

6/5/14
19 November 2004



Australian Government
**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Notification of Change
Certificate of Approval No 6/5/14
Change No 2

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

Salter Weigh-Tronix Model 233 Weighing Instrument

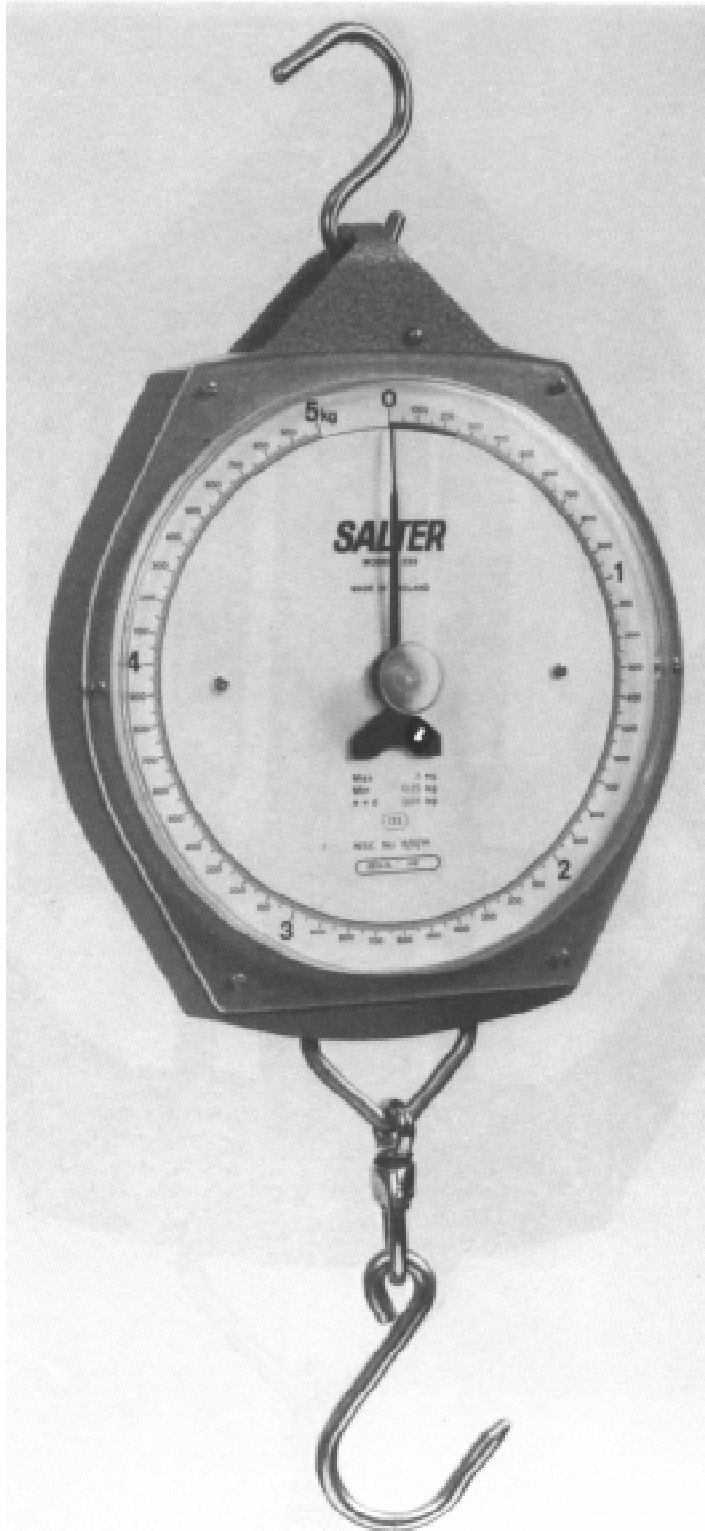
submitted by Avery Weigh-Tronix
(formerly submitted by Salter Weigh-Tronix Pty Ltd)
Foundry Lane, Smethwick
West Midlands B66 2LP UK.

1. In Certificate of Approval No 6/5/14 dated 14 August 1998, the Condition of Approval referring to the review of the approval should be amended to read:
“This approval becomes subject to review on 1 August 2007, and then every 5 years thereafter.”
2. In Certificate of Approval No 6/5/14 dated 14 August 1998 and its Technical Schedule Variation, all references to the submitter should be amended to read:
“Avery Weigh-Tronix
Foundry Lane, Smethwick
West Midlands B66 2LP UK.”

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.', written in a cursive style.

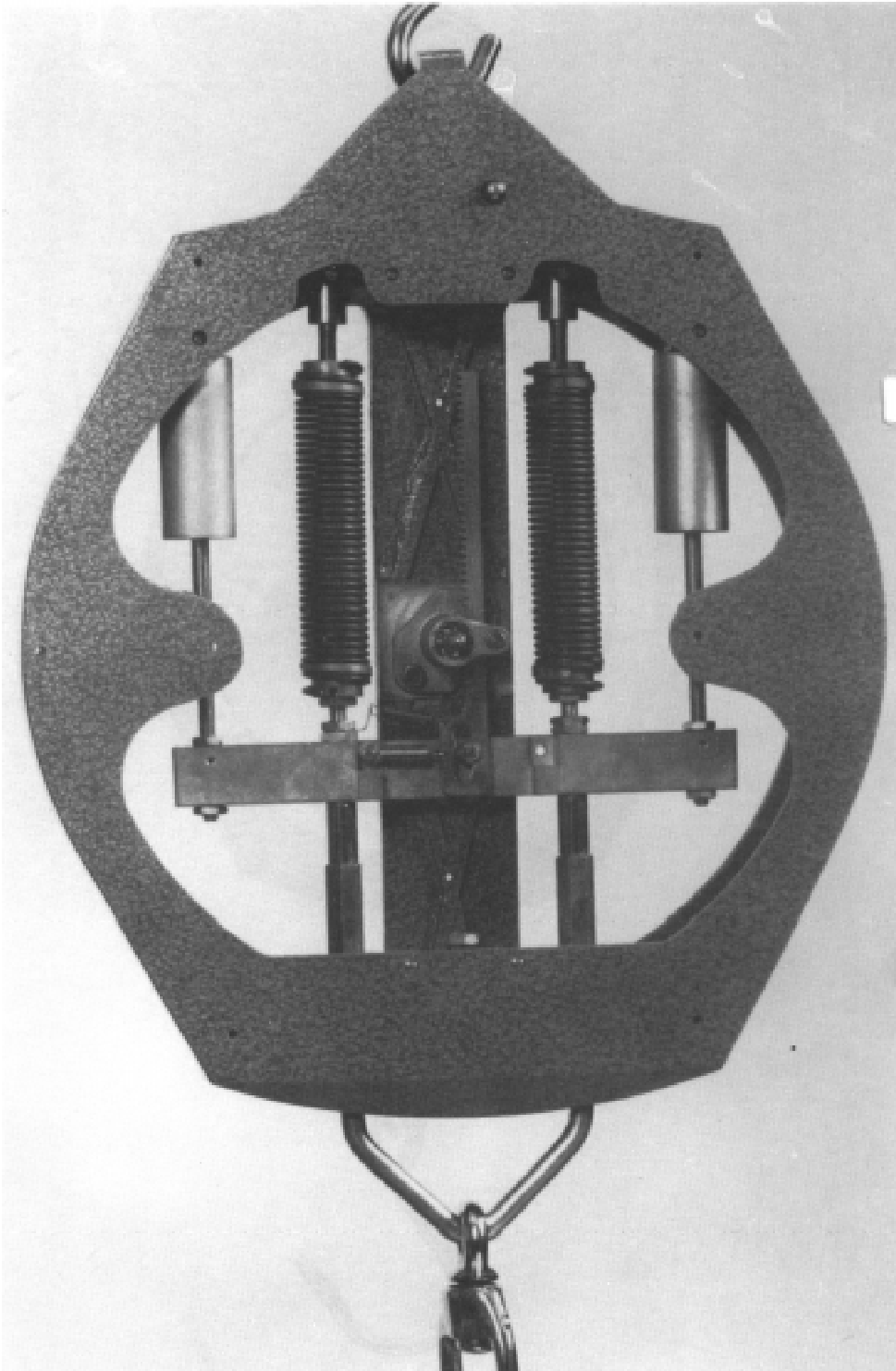
FIGURE 6/5/14 - 1



Salter Weigh-Tronix Model 233 Weighing Instrument

6/5/14
14 August 1998

FIGURE 6/5/14 - 2



Showing Resistant Mechanism

FIGURE 6/5/14 - 3



Model 235-10X