

6/10B/52A
6 August 2003



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Cancellation

Certificate of Approval No 6/10B/52A

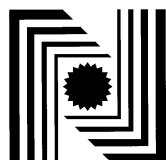
This is to certify that the approval for use for trade granted in respect of the

Rite-Weigh Model RW-1 Weighing Instrument

submitted by Rite-Weigh Scale Service Pty Ltd
9 Wetherill Street
Lidcombe NSW 2141

has been cancelled in respect of new instruments as from 1 September 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

12 Lyonpark Road, North Ryde NSW

Certificate of Approval

No 6/10B/52A

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

Rite-Weigh Model RW-1 Weighing Instrument

submitted by Rite-Weigh Scale Service Pty Ltd
9 Wetherill Street
Lidcombe NSW 2141.

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 November 2002, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/10B/52A and only by persons authorised by the submitter.

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 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.

The pattern as approved herein or with substitute load cells and/or indicator and in other capacities and configurations, shall comply with General Certificate No 6B/0.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

DESCRIPTIVE ADVICE

Pattern: approved 15 October 1997

- A Rite-Weigh model RW-1 self-indicating weighing instrument of 60 000 kg maximum capacity.

Variants: approved 15 October 1997

1. With a hopper or tank-type load receptor.
2. With a model RWH1 hopper load receptor.
3. With a model RWH2 hopper load receptor.

Technical Schedule No 6/10B/52A describes the pattern and variants 1 to 3.

Variant: approved 22 August 2001

4. Other RW-1 series platform instruments in capacities from 100 to 149 999 kg.
- Technical Schedule No 6/10B/52A Variation No 1 describes variant 4.

FILING ADVICE

Certificate of Approval No 6/10B/52A dated 30 December 1997 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/10B/52A dated 29 August 2001
Technical Schedule No 6/10B/52A dated 30 December 1997 (incl. Test Procedure)
Technical Schedule No 6/10B/52A Variation No 1 dated 29 August 2001
Figures 1 and 2 dated 30 December 1997

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.

A handwritten signature in black ink, appearing to read 'Jim Bennett', with a stylized, cursive script.

TECHNICAL SCHEDULE No 6/10B/52A

Pattern: Rite-Weigh Model RW-1 Weighing Instrument.

Submittor: Rite-Weigh Scale Service Pty Ltd
9 Wetherill Street
Lidcombe NSW 2141.

1. Description of Pattern

A Rite-Weigh model RW-1 self-indicating weighing instrument of 60 000 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

1.1 Basework

The model RW-1 basework has the platform fully supported by four load cells. Longitudinal and transverse movement is limited by up to 8 Philips model PR6152/02 horizontal constrainers.

1.2 Load Cells

Four Philips model PR6201/24C3 load cells of 20 000 kg maximum capacity are used. The load cells are also described in the documentation of NSC approval No S323.

1.3 Indicator

A Gedge Sytems model GS1650Mk3 digital indicator is used. The indicator is also described in the documentation of NSC approval No S193B.

1.4 Verification/Certification Provision


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

1.5 Sealing Provision

Provision is made for the calibration adjustments in the indicator to be sealed by means of the method described in the approval documentation for the indicator.

1.6 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 | <i>Max</i> kg or t * |
| Minimum capacity | <i>Min</i> kg or t * |
| Verification scale interval | <i>e</i> = kg or t * |
| Serial number of the instrument | |
| Pattern approval mark for the instrument | NSC No 6/10B/52A |
| Pattern approval mark for the load cells | NSC No S.... |
| Pattern approval mark for the indicator | NSC No S.... |

* These markings shall also be shown near each reading face if they are not already located there.

2. Description of Variants

2.1 Variant 1

Other models with a single or multiple-bin hopper or tank-type load receptor of 30 000 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

Four Philips model PR6201/34C3 load cells of 30 000 kg maximum capacity are used. Horizontal stays are fitted at each load cell mounting. The load cells are also described in the documentation of NSC approval No S298.

2.2 Variant 2

A model RWH1 single bin hopper load receptor of 100 kg maximum capacity with a verification scale interval of 0.1 kg. The receptor is suspended from or mounted on two load cells (Figure 1).

Two GEC Avery model 8713 load cells of 250 kg maximum capacity are used and are mounted in accordance with the manufacturer's instructions and as described in the documentation of NSC approval No S203A.

The vertical location of the load cells on the hopper or supporting legs may be varied within limits which provide stability of the hopper.

The hopper is restrained from excessive lateral movement.

2.3 Variant 3

A model RWH2 single bin hopper load receptor in capacities up to 1499 kg and approved for use with up to 3000 verification scale intervals. The receptor is suspended from or mounted on two, three or four load cells (Figure 2).

GEC Avery model 8713 load cells of 500 kg maximum capacity are used and are mounted in accordance with the manufacturer's instructions and as described in the documentation of NSC approval No S203A.

The load receptor may be rectangular, square or circular in horizontal cross-section. The load cells are located symmetrically around the hopper.

The vertical location of the load cells on the hopper or supporting legs may be varied within limits which provide stability of the hopper.

The hopper is restrained from excessive lateral movement.

TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, 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 $2\,000 < m \leq 10\,000$.

TECHNICAL SCHEDULE No 6/10B/52A

VARIATION No 1

Pattern: Rite-Weigh Model RW-1 Weighing Instrument.

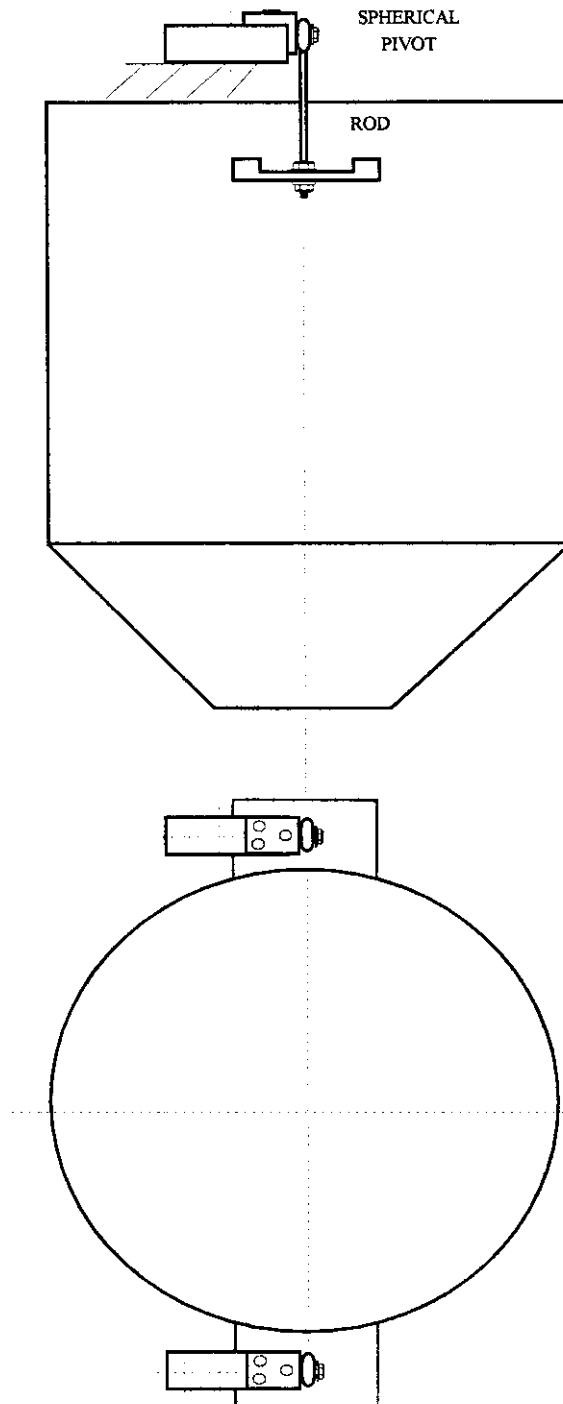
Submittor: Rite-Weigh Scale Service Pty Ltd
9 Wetherill Street
Lidcombe NSW 2141.

1. Description of Variant 4

Other RW-1 series platform weighing instruments in capacities from 100 to 149 999 kg, with no less than 4 and with up to 10 Commission-approved load cells, and approved for use with up to 4000 verification scale intervals.

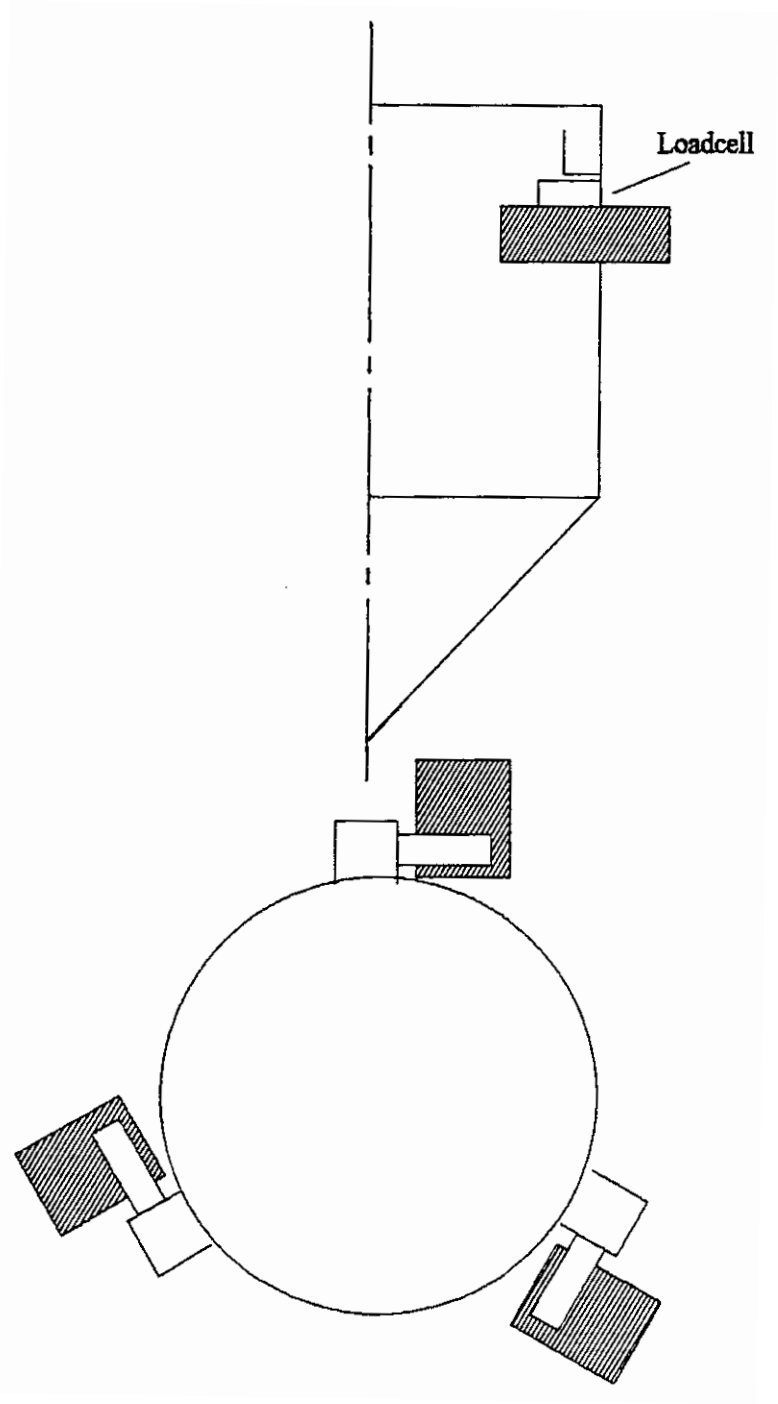
Instruments used with more than 3000 verification scale intervals shall be provided with wind protection in accordance with 'clause 4. Wind Effects' of General Certificate of Approval No 6B/0.

FIGURE 6/10B/52A - 1



Typical Variant 2 Hopper

FIGURE 6/10B/52A - 2



Typical Three Load Cell Variant 3 Hopper