



Australian Government
Department of Industry,
Science and Resources

**National
Measurement
Institute**

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/18/37

Issued by the Chief Metrologist 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 instruments herein described.

Brisweigh Model RCT 300 Overhead-track Weighing Instrument

submitted by S.R.O. Technology Pty Limited
Unit 14, 70 Holbeche Road
Arndell Park NSW 2148

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 approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated July 2004.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	10/05/10
1	Pattern approved – certificate issued	28/07/10
2	Pattern amended (submitter name and markings) & test procedure and MPE reference corrected – certificate issued	10/03/23

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/18/37' 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 National Measurement Institute (NMI) 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 document NMI P 106.

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

The pattern as approved herein or with substitute approved indicators shall comply with General Certificate of Approval No 6B/0.

Note: New instruments manufactured under this approval shall only use load cells and/or indicators with current Supplementary Certificates of Approval.

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



Darryl Hines
Manager
Policy and Regulatory
Services

TECHNICAL SCHEDULE No 6/18/37

1. Description of Pattern

**approved on 10/05/10
amended on 10/03/23**

A Brisweigh model RCT 300 class  non-automatic overhead-track weighing instrument of up to 500 kg maximum capacity.

The pattern is approved for use with up to 3000 verification scale intervals, and with a verification scale interval of not less than 0.1 kg.

1.1 Trackwork

The model RCT 300 trackwork has the weigh-rail up to 172 mm in length supported by a single load cell (Figure 1).

The instrument may also incorporate mechanical mechanisms to assist in loading and removing the load, however an operator is required to supervise the weighing operation (hence the instrument is considered to be a non-automatic weighing instrument).

Note: Satisfactory performance may be dependent on aspects of the lead-in and lead-out rails which support the instrument. Suitable installation conditions must be chosen to ensure satisfactory performance.

1.2 Load Cell

A single Zemic model L6G load cell of 600 kg capacity is used and mounted as shown in Figure 1.

Note that only this make, model and capacity of load cell shall be used. The load cell carries a label with the make, model, capacity and serial number.

For the purposes of calculations required by General Certificate of Approval No 6B/0, if an alternative indicator is used, the following parameters may be used for the Zemic model L6G 600 kg load cell.

Maximum capacity	600 kg
Accuracy Class	C
Maximum number of verification intervals	3000
Minimum value of verification scale interval	0.05 kg
Minimum dead load output return value (DR)	0.1 kg
Output rating (nominal)	2 mV/V
Input impedance (nominal)	409 ohm
Supply voltage (AC or DC)	5-12 V
Number of leads (plus shield)	6
Cable length (± 0.1 m)	3 m (#)

(#) The cable length must not be altered after manufacture.

1.3 Indicator

A Rinstrum model 5100 digital indicator is used. The indicator is also described in the documentation of approval NMI (NSC) S363.

1.4 Sealing and Verification Provisions

Provision is made for the calibration adjustments of the indicator to be sealed as described in its approval documentation.

Provision is made for a verification mark to be applied.

1.5 Descriptive Markings

Instruments are marked with the following:

Manufacturer's mark, or name written in full	S.R.O. Technology Pty. Limited (**)
Indication of accuracy class	Ⓜ
Maximum capacity	<i>Max</i> kg (*)
Minimum capacity	<i>Min</i> kg (*)
Verification scale interval	<i>e</i> = kg (*)
Maximum subtractive tare (if less than <i>Max</i>)	<i>T</i> = - kg
Serial number of the instrument
Serial number of the load cells (#) (#)
Pattern approval mark for the instrument	NMI 6/18/37
Pattern approval mark for the indicator	NMI S...

- (*) These markings shall also be shown near the display of the result if they are not already located there.
- (#) Alternatively, these may be marked on a nameplate for the trackwork.
- (**) 'S.R.O. Technology Pty. Limited' may also be known as 'Brisweigh'.

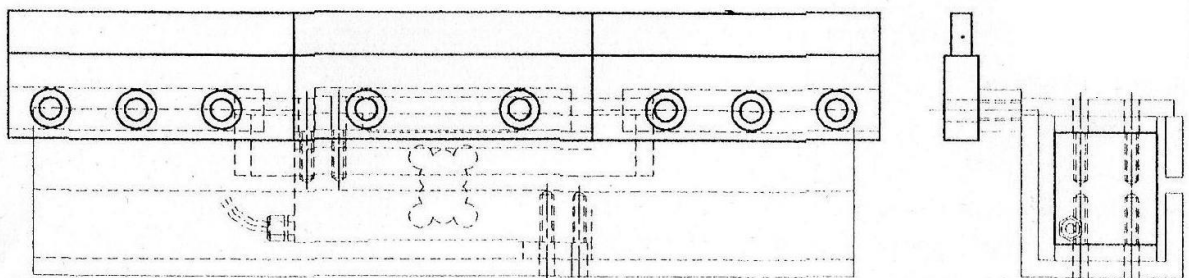
TEST PROCEDURE No 6/18/37

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE 6/18/37 – 1



Brisweigh Model RCT 300 Overhead-track Weighing Instrument
Including Load cell Mounting

~ End of Document ~