Australian Government
Department of Industry, Science and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/9C/331

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.

Rinstrum Model RPS1212 platform weighing instrument

submitted by Rinstrum Pty Ltd
4/31 Henry Street
Loganholme QLD 4129

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 October 2015.

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 & variants 1 to 2 approved – certificate issued	15/04/25
1	Variant 2 amended & variants 3 to 6 approved – certificate issued	29/01/26

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/9C/331' 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 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 S1/0B.

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

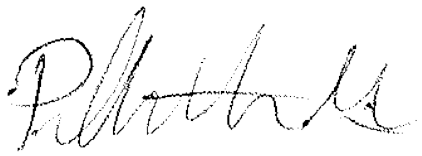
Note:

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

New instruments manufactured under this approval with analogue load cells connected parallel to each other in a junction box shall comply with 6-wire cable connection requirements between the junction box and the indicator as shown in Figures 3a and 3b; and

Instruments manufactured or converted under this approval shall only use approved indicators with reference to document NMI R 76 dated October 2015 or later.

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



Phillip Mitchell
A/g Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No 6/9C/331

1. Description of Pattern approved on 15/04/25

A Rinstrum Model RPS1212 (Figure 1a) class (III) self-indicating single interval non-automatic weighing instrument of 1500 kg maximum capacity with verification scale interval of 0.5 kg and with a minimum capacity of 10 kg, and approved for use with up to 3000 verification scale intervals.

Instruments may be fitted with output sockets (output interfacing capability) for the connection of peripheral and/or auxiliary devices.

1.1 Basework

The model RPS basework has the load receptor directly supported by four load cells fitted with self-aligning supporting feet. The basework has a nominal dimension of 1200 mm x 1200 mm.

If approach ramps are provided care shall be taken to ensure that these do not interfere with the platform.

1.2 Load Cells

Four ZEMIC model H8C-C3-1.5t-4B-D97 load cells of 1500 kg capacity are used and mounted as shown in Figure 2. The load cells are also described in the documentation of approval NMI S752.

1.2.1 Load Cell connection

The load cells are connected parallel to each other in a junction box (Figure 1b); and 6-wire cable connection is used between the junction box and the indicator (Figures 3a and 3b).

1.3 Indicator

A Rinstrum model R320 digital indicator is used. The indicator is also described in the documentation of approval NMI S863.

1.4 Levelling

Where instruments are liable to be tilted (i.e. they are not installed in a levelled permanently fixed location), they are provided with adjustable feet and a visible level indicator.

The instrument is to be used in a level condition as indicated by the level indicator.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Sealing Provision

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

1.7 Software

The legally relevant software version and number are described in the approval documentation of the indicator.

1.8 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Rinstrum
Indication of accuracy class	(III)
Pattern approval number for the instrument	NMI 6/9C/331
Pattern approval number for the load cells	NMI S.....
Pattern approval number for the indicator	NMI S.....
Maximum capacity	*Max* ..... kg #1
Minimum capacity	*Min* ..... kg #1
Verification scale interval	*e* = ... kg #1
Tare capacity	*T* = - ..... kg #2
Serial number of the instrument	.....

#1 These markings shall be shown near the display of the result.

#2 This marking is required if *T* is not equal to Max.

2. Description of Variant 1 — approved on 15/04/25

Rinstrum model RPS1212 instruments as class (III) single interval non-automatic weighing instruments in capacities of 1500 kg up to 3000 kg, and approved for use with up to 3000 verification scale intervals.

Using approved load cells and an approved indicator in accordance with NMI General Certificate of Approval No 6B/0.

3. Description of Variant 2 — approved on 15/04/25 amended on 29/01/26

The pattern and variants may also have a platform with a nominal dimension as listed below:

a) 600 mm x 600 mm;

b) 800 mm x 800 mm;

c) 1000 mm x 1000 mm;

d) 1500 mm x 1500 mm.

4. Description of Variant 3 — approved on 29/01/26

Rinstrum model RPS1212 instruments as multiple range weighing instruments with up to three weighing ranges, in which case it is approved for use up to 3000 verification scale intervals per weighing range and in capacities of 1500 kg up to 3000 kg using approved load cells and/or an approved indicator in accordance with NMI General Certificate of Approval No 6B/0.

5. Description of Variant 4 — approved on 29/01/26

Rinstrum model RPS1212 instruments (Figure 1) which are similar to the pattern and variant 2 in certain multiple range capacities as listed in Table 1.

Instruments are marked with the maximum capacity, minimum capacity and verification scale interval for each range, with an indication of the range to which they apply, e.g. '←1→'

Range	←1→	←2→	←3→ (*)
Max	…. kg	…. kg	…. kg
Min	…. kg	…. kg	…. kg
e =	…. kg	…. kg	…. kg

(*) The markings for each weighing range shall be clearly associated with an indication of the corresponding range (i.e. '←1→') to correspond to the weighing range designations shown in the instrument display.

5.1 Indicator

A Rinstrum model C320 or C350 or C357 or C327 digital indicator is used. The indicator is also described in the documentation of approval NMI S869.

5.2 Load Cells

Four ZEMIC model H8C-C3-1.5t-4B load cells of 1500 kg capacity or H8C-C3-500kg-4B load cells of 500 kg capacity are used and mounted as shown in Figure 2. The load cells are also described in the documentation of approval NMI S752.

Table 1

Maximum Capacity ($Max_1/Max_2/Max_3$)	Minimum Capacity ($Min_1/Min_2/Min_3$)	Verification Scale Interval ($e_1/e_2/e_3$)	Zemic H8C Load Cell Maximum Capacity (E_{max})
300/600/1500 kg	2/4/10 kg	0.1/0.2/0.5 kg	500 kg C3
1500/3000 kg	10/20 kg	0.5/1 kg	1500 kg C3

6. Description of Variant 5 approved on 29/01/26

Rinstrum model RPS1212-SS instruments which are similar to the pattern and variants 1 to 3 but the basework uses a stainless steel type construction (rather than painted mild steel) as shown in Figure 4.

7. Description of Variant 6 approved on 29/01/26

Rinstrum model RPS1212-SS instruments (Figure 1) which are similar to the pattern and variant 2 but the basework uses a stainless steel type construction in certain multiple range capacities as listed in Table 2.

Instruments are marked with the maximum capacity, minimum capacity and verification scale interval for each range, with an indication of the range to which they apply, e.g. '←1→'

Range	←1→	←2→	←3→ (*)
Max	…. kg	…. kg	…. kg
Min	…. kg	…. kg	…. kg
e =	…. kg	…. kg	…. kg

(*) The markings for each weighing range shall be clearly associated with an indication of the corresponding range (i.e. '←1→') to correspond to the weighing range designations shown in the instrument display.

7.1 Indicator

A Rinstrum model C320 or C350 or C357 or C327 digital indicator is used. The indicator is also described in the documentation of approval NMI S869.

7.2 Load Cells

Four ZEMIC model B8D-C3-1.5t-6B load cells of 1500 kg capacity or B8D-C3-500kg-6B load cells of 500 kg capacity are used and mounted as shown in Figure 2. The load cells are also described in the documentation of approval NMI S751.

Table 2

Maximum Capacity ($Max_1/Max_2/Max_3$)	Minimum Capacity ($Min_1/Min_2/Min_3$)	Verification Scale Interval ($e_1/e_2/e_3$)	Zemic B8D Load Cell Maximum Capacity (E_{max})
300/600/1500 kg	2/4/10 kg	0.1/0.2/0.5 kg	500 kg C3
1500/3000 kg	10/20 kg	0.5/1 kg	1500 kg C3

TEST PROCEDURE No 6/9C/331

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures NITP 6.1 to 6.4: non-automatic weighing instruments.

The instrument shall not be adjusted to anything other than as close as practical to zero error, even when these values are within the maximum permissible errors.

Maximum Permissible Errors

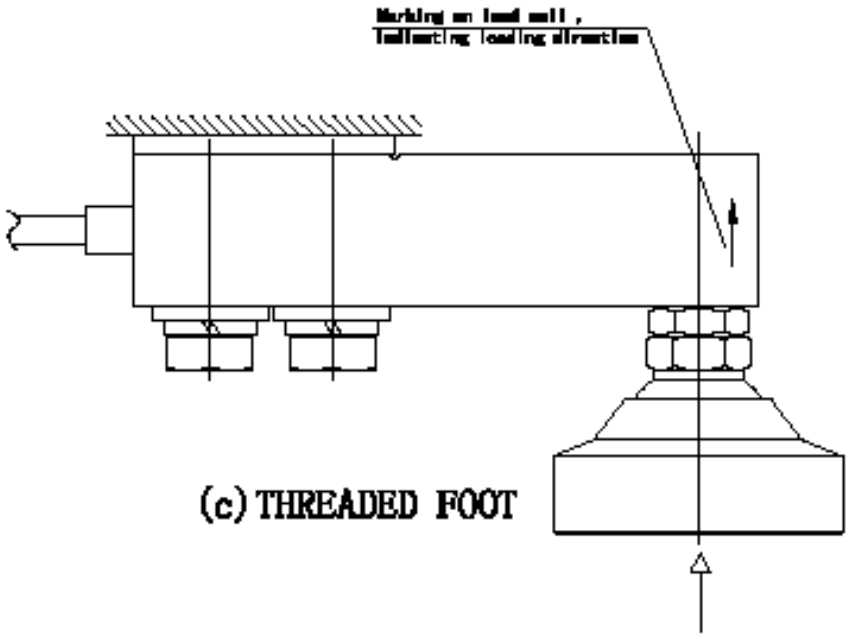
The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009.*

FIGURE 6/9C/331 – 1

(a) Rinstrum RPS1212 Weighing Instrument (Pattern)

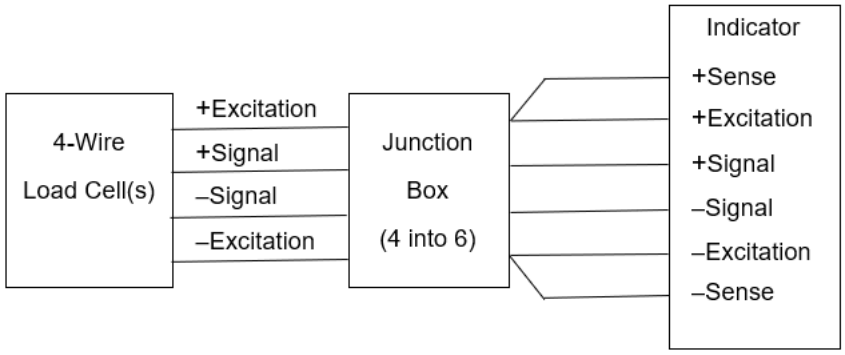
(b) Junction box

FIGURE 6/9C/331 – 2

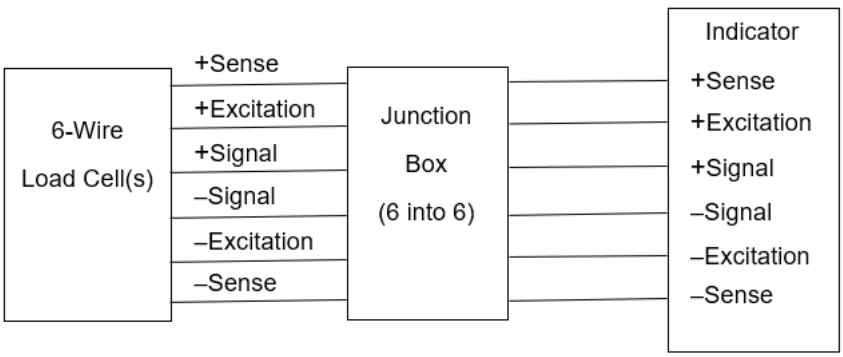


Load cell mounting location.

FIGURE 6/9C/331 – 3



a) 4-Wire Analogue Load Cell Connection Using Junction Box



b) 6-Wire Analogue Load Cell Connection Using Junction Box

FIGURE 6/9C/331 – 4

Rinstrum RPS1212-SS Weighing Instrument (Variant 5)

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