Australian Government
Department of Industry, Science and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/9C/328

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.

Correct Weight Scales Model CWSTAB1212 Weighing Instrument

submitted by Correct Weight Scales Pty Ltd
3 Pumice Court
Keilor East Victoria 3033

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, *Nonautomatic 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	22/09/23

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/9C/328' 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 shall comply with 6-wire cable connection requirements between the junction box and the indicator in the case of analogue load cells are connected parallel to each other in a junction box prior to connection to 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*.

Darryl Hines
Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No 6/9C/328

1. Description of Pattern approved on 22/09/23

A Correct Weight Scales model CWSTAB1212 (Figure 1a) class (III) self-indicating single range, non-automatic weighing instrument of 3000 kg maximum capacity with verification scale interval is 1 kg and with a minimum capacity of 20 kg, and approved for use with up to 3000 verification scale intervals.

1.1 Basework

The model CWS1212TA1212 basework (Figures 2) has the load receptor directly supported by four load cells which fitted with self-aligning supporting feet. This model basework has nominal dimensions 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 HOLI model AS130 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 S833.

1.2.1 Load Cell connection

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

1.3 Indicator

A Correct Weight Scales model CWS318 PlusC digital indicator is used. The indicator is also described in the documentation of approval NMI S845.

1.4 Descriptive Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Correct Weight Scales
Indication of accuracy class	(III)
Pattern approval number for the instrument	NMI 6/9C/328
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*.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Sealing Provision

Sealing provision is described in the approval documentation of the indicator.

1.7 Levelling

Where instruments are liable to be tilted (i.e. they are not installed in a 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 (Figure 1b).

1.8 Software

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

2. Description of Variant 1 approved on 22/09/23

The CWSTAB1212 series instruments may be fitted with other basework models as listed in TABLE 1. The model in bold is the basework of the pattern.

The CWSTAB1212 series instruments may be fitted with approved load cells and/or approved indicators (in accordance with NMI General Certificate of Approval No. 6B/0).

TABLE 1

Basework Model	Maximum Capacity (*Max*) (kg)	Minimum Capacity (*Min)* (kg)	Verification Scale Interval (*e*) (kg)	Nominal Platform Size (mm x mm)	Load Cell Capacity (kg)
CWS1212TA1010	1500	10	0.5	1000 x 1000	500
CWS1212TA1212	1500	10	0.5	1200 x 1200	1000
CWS1212TA1212	**3000**	**20**	**1**	**1200 x 1200**	**1500**
CWS1212TA1515	3000	20	1	1500 x 1500	1500
CWS1212TA1515	5000	40	2	1500 x 1500	1500

3. Description of Variant 2 approved on 22/09/23

The CWSTAB1212 weighing instrument may be fitted with four HOLI model SS130 stainless steel load cells and stainless steel construction basework models as listed in TABLE 2, and has the same specifications and characteristics as pattern and variant 1. The load cells are also described in the documentation of approval NMI S833.

TABLE 2

Basework Model	Maximum Capacity (*Max*) (kg)	Minimum Capacity (*Min)* (kg)	Verification Scale Interval (*e*) (kg)	Nominal Platform Size (mm x mm)	Load Cell Capacity (kg)
CWS1212TA1010SS	1500	10	0.5	1000 x 1000	500
CWS1212TA1212SS	1500	10	0.5	1200 x 1200	1000
CWS1212TA1212SS	3000	20	1	1200 x 1200	1500
CWS1212TA1515SS	3000	20	1	1500 x 1500	1500
CWS1212TA1515SS	5000	40	2	1500 x 1500	1500

TEST PROCEDURE No 6/9C/328

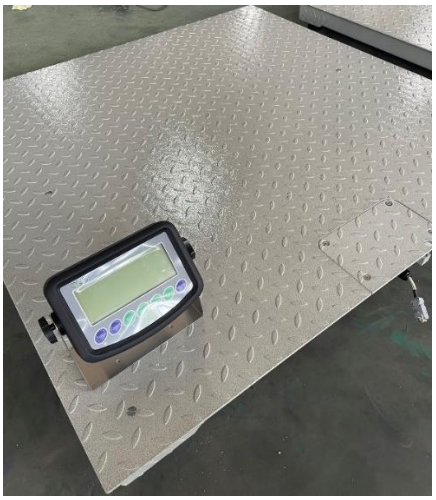
Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

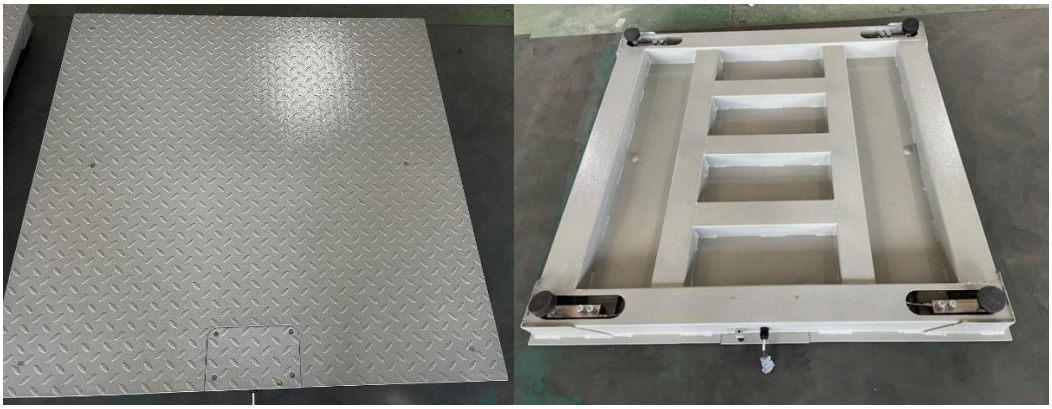
The instrument shall not be adjusted to anything other than as close as practical to zero error, even when these values are within the maximum permissible errors.

Maximum Permissible Errors

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

FIGURE 6/9C/328 – 1

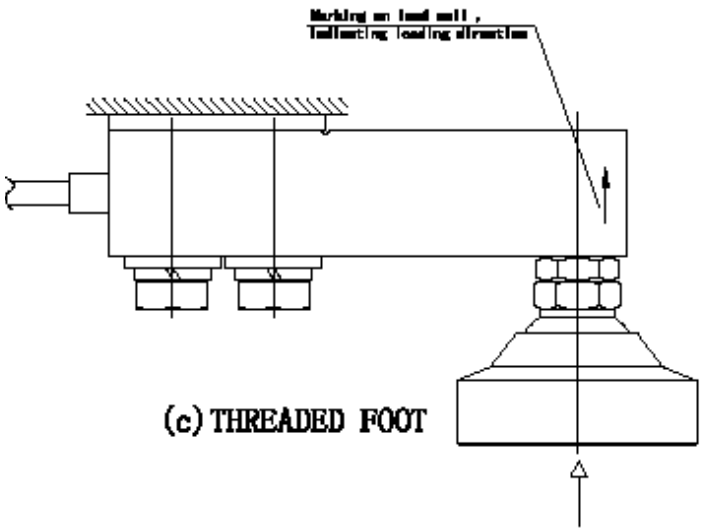




(a) Correct Weight Scales Model CWSTAB1212 Weighing Instrument

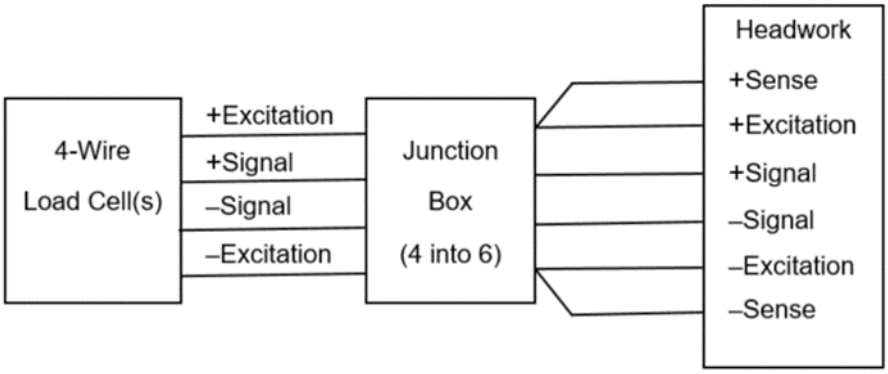
(b) Level Indicator Location

FIGURE 6/9C/328 – 2

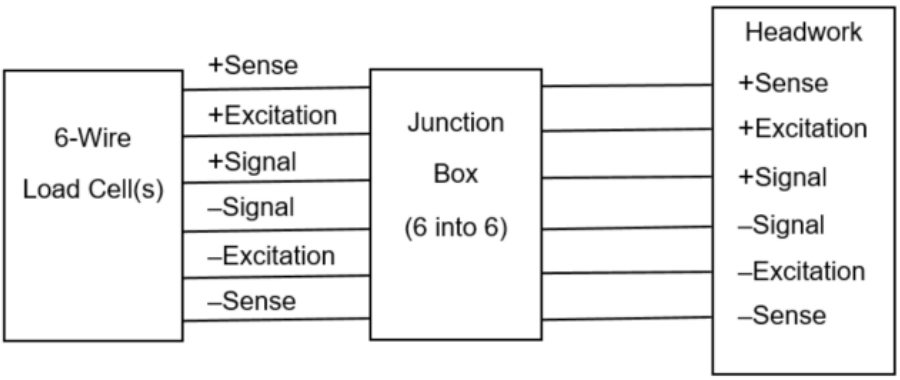


Mounting for Load Cell

FIGURE 6/9C/328 – 3



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



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

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