CANCELLED Cert. No 6/3
31-12-90

NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/18/14

This is to certify that an approval has been granted by the Commission that the pattern and variant of the

AWA Type 3KA70708 Overhead-track Weighing Instrument

submitted by Amalgamated Wireless (Australasia) Ltd
Data Systems Division
422 Lane Cove Road
North Ryde, New South Wales, 2113

are suitable for use for trade.

The approval is subject to review on or after 1/1/88.

Instruments purporting to comply with this approval shall be marked NSC No 6/18/14.

Relevant drawings and specifications are lodged with the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 21/12/82

. AWA type 3KA70708 self-indicating overhead-track weighing instrument of maximum capacity 500 kg by 0.5 kg approved for use with 1000 scale intervals and with two HBM Z6H2 500 kg load cells.

Technical Schedule No 6/18/14 dated 21/1/83 describes the pattern.

Variant: approved 26/5/83

1. Type 4KA70708 of 100 kg capacity using HBM Z6H2 100 kg load cells in lieu of the load cells of the pattern.

Technical Schedule No 6/18/14 Variation No 1 dated 14/6/83 describes variant 1.

Filing Advice

Certificate of Approval No 6/18/14 dated 21/1/83 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/18/14 dated 14/6/83
Technical Schedule No 6/18/14 dated 21/1/83
Technical Schedule No 6/18/14 Variation No 1 dated 14/6/83
Test Procedure No 6/18/14 dated 21/1/83
Figures 1 to 3 dated 21/1/83.

14/6/83

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/18/14

Pattern: AWA Type 3KA70708 Overhead-track Weighing Instrument

Submittor: Amalgamated Wireless (Australasia) Ltd
Data Systems Division
422 Lane Cove Road
North Ryde, New South Wales, 2113.

1. Description of Pattern

AWA type 3KA70708 self-indicating overhead-track weighing instrument (Figures 1, 2 and 3) of 500 kg maximum capacity with 0.5 kg scale intervals, mounted in a permanantly fixed position, and approved for use with 1000 scale intervals.

It consists of a mass indicator connected to two HBM Z6H2, 500 kg load cells on which is mounted a weigh rail up to 450 mm in length.

1.1 Zero Setting

By a tool-operated zero adjustment marked ZERO ADJUST. A light marked CENTRE OF ZERO is illuminated whenever zero is balanced to within 0.25e.

1.2 Tare

(a) A semi-automatic subtractive taring device operated by a key marked TURN TO ACQUIRE TARE.

(b) A tare indicator marked TARED indicates that a tare has been entered and remains illuminated throughout the weighing operation.

1.3 Display Check

When power is applied, the indicator displays all 8's, then HELLO, before resetting to zero.

1.4 Marking

The instrument is marked with the following data, together in a clearly visible location:

Manufacturer's name or mark	
Serial number of instrument	
NSC approval number	NSC No 6/18/14
Accuracy class	(III)
Maximum capacity	Max 500 kg*
Minimum capacity	Min 25 kg*
Verification scale interval	e = d = 0.5 kg*
Maximum subtractive tare	T =-500 kg.

1.5 Sealing

A lead and wire seal with the wire passing through holes in the top cover and case of the digitising-electronics preventing access to the adjustments. The load cell serial numbers are on a metal plate sealed in the same manner (Figure 2).

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* Repeated in the vicinity of every reading face.

All load applications should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error, as set out in Document 104.

The maximum permissible errors are:

±0.5e for loads between 0 and 500e;
±1e for loads between 501e and 1000e.

1. Zero Range

The maximum range of operation of the zero device should not exceed 4% of the capacity of the instrument (± 2% approximately). Satisfactory setting may be checked by the following method:

(a) With zero balance indicated apply a load of, say, 2.5% of maximum capacity to the instrument; it should not be possible to obtain zero balance by means of the zero adjustment.

(b) Reduce the load to, say, 1.5% of maximum capacity; it should now be possible to obtain zero.

2. Zero Balance

Checking using Document 104, that when the CENTRE OF ZERO light is illuminated, zero is set within 0.25e.

3. Range of Indication

(a) The maximum mass indicated should not exceed the maximum capacity (Max) by more than 10 scale intervals; above this, the indicator should blank.

(b) The minimum mass indicated should be zero; below this the indicator should display the mass prefixed by a minus sign.

4. Test Loads

Test loads are to be applied to the instrument in not less than 5 approximately equal steps increasing to maximum capacity, followed by decreasing loads of not less than 5 approximately equal steps.

The instrument should display these loads within the applicable tolerance as listed above.

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/18/14

VARIATION No 1

Pattern: AWA Type 3KA70708 Overhead-track Weighing Instrument

Submittor: Amalgamated Wireless (Australasia) Ltd
Data Systems Division
422 Lane Cove Road
North Ryde, New South Wales, 2113.

1. Description of Variant 1

AWA type 4KA70708 overhead-track weighing instrument of 100 kg maximum capacity using two HBM Z6H2 100 kg load cells (approved under NSC No S135) to replace the load cells of the pattern, and approved for use with up to 1000 scale intervals.

The weigh rail may be up to 450 mm in length.

1.1 Markings

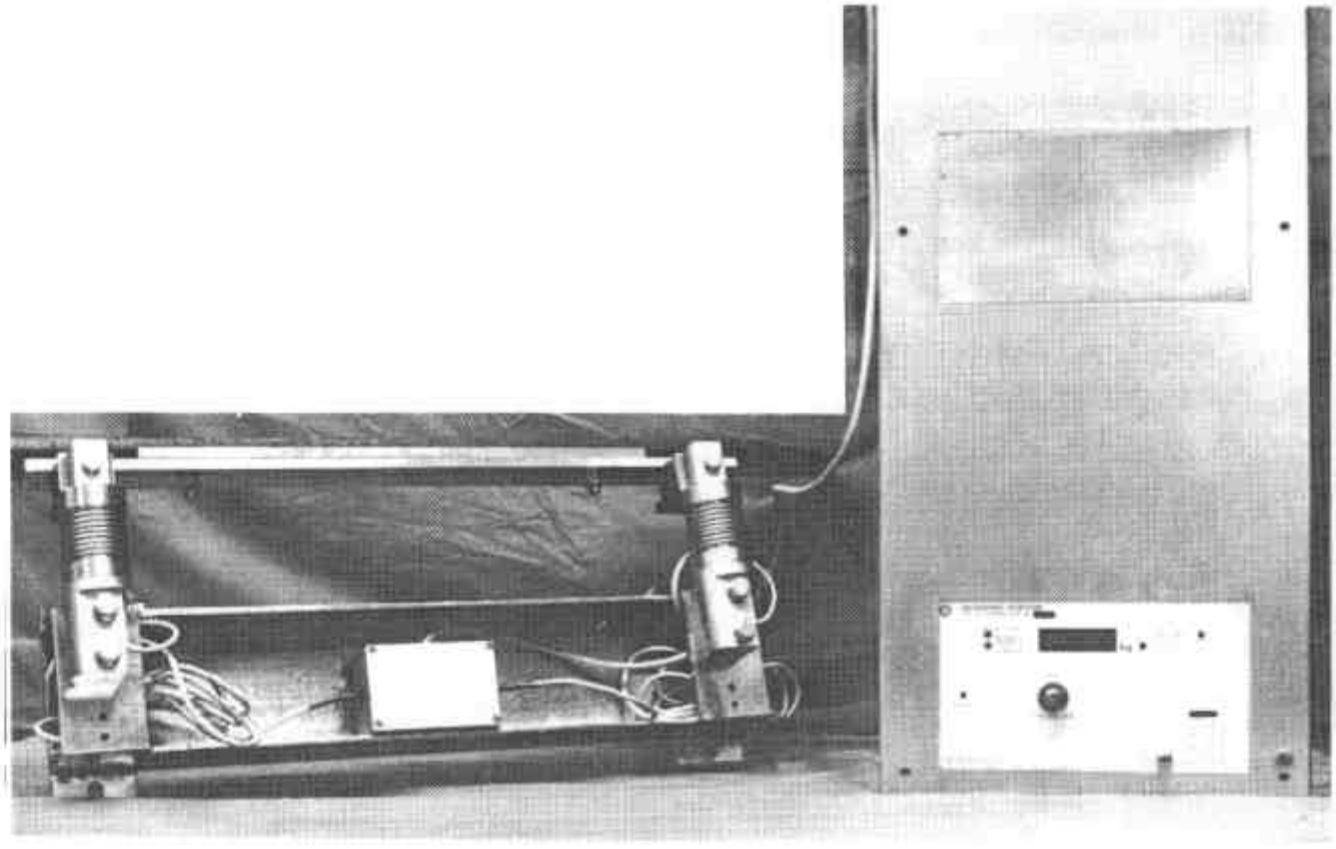
The instrument is marked with the following data, together in a clearly visible location:

Manufacturer's name or mark	
Model number	
Serial number of instrument	
NSC approval number	NSC No 6/18/14
Accuracy class	(III)
Maximum capacity	Max 100 kg*
Minimum capacity	Min 5 kg*
Verification scale interval	e = d = 0.1 kg*
Maximum subtractive tare	T = -100 kg

* Repeated in the vicinity of every reading face.

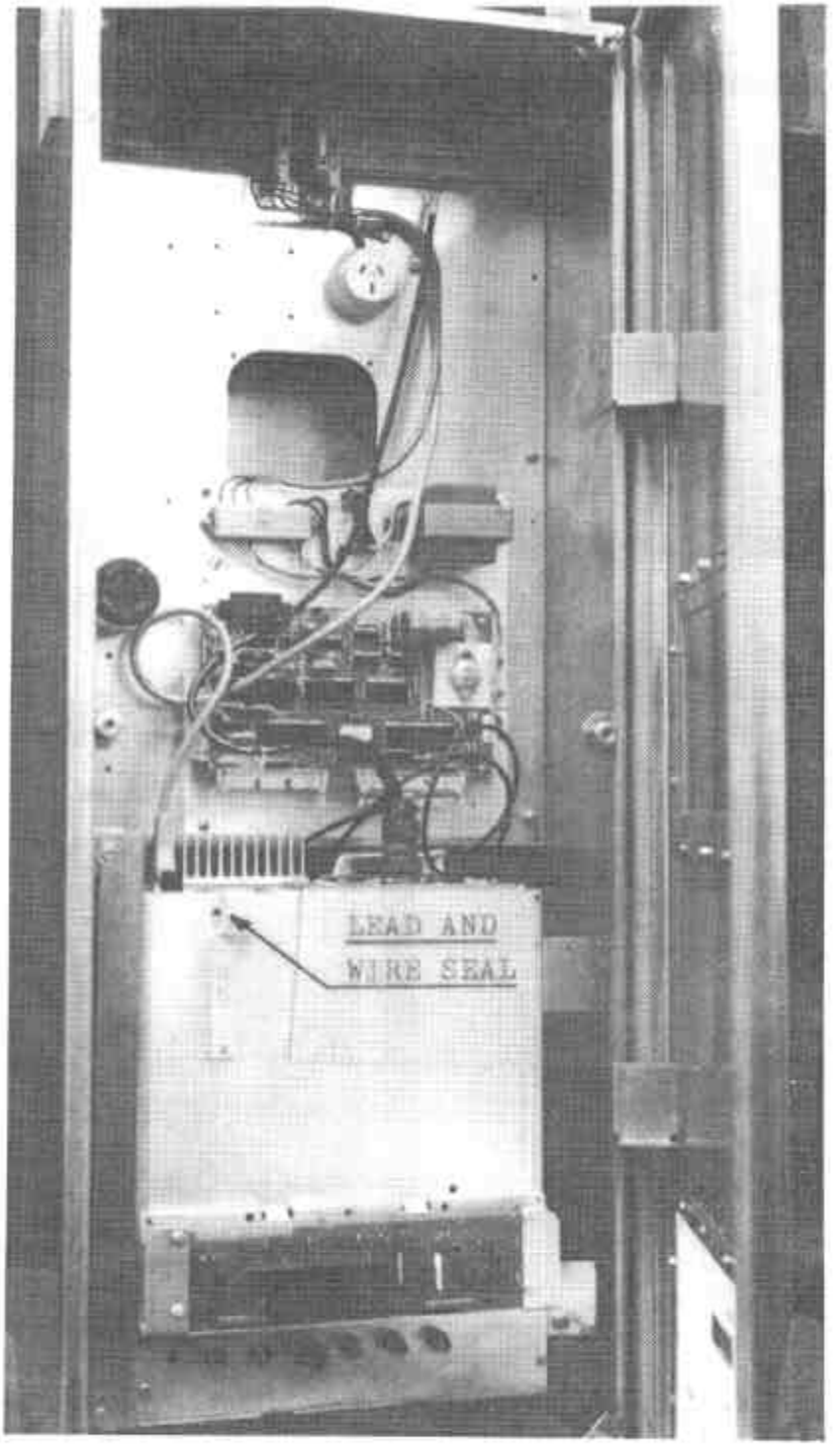
14/6/83

FIGURE 6/18/14 - 1



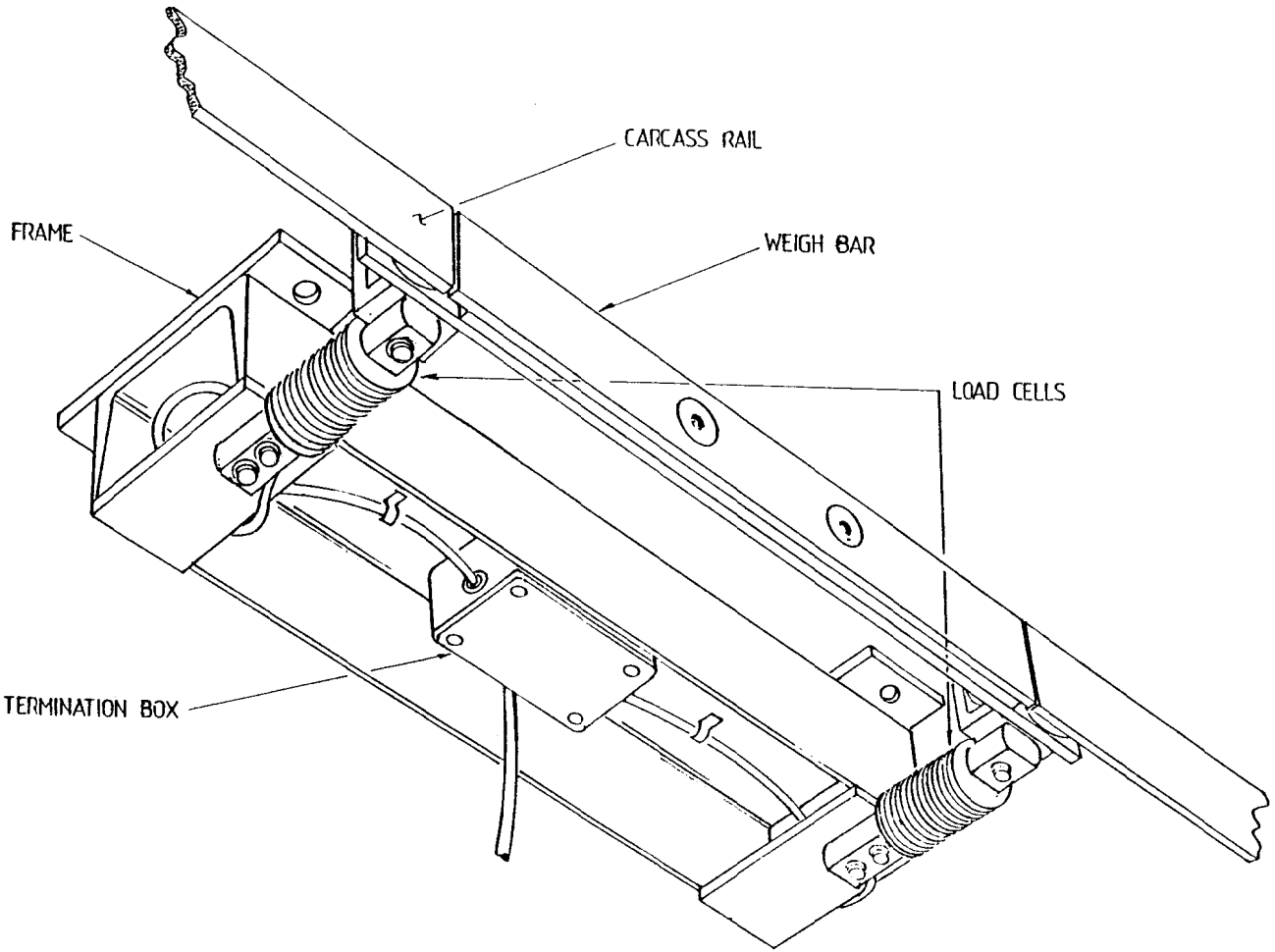
Indicator And Weighhead

FIGURE 6/18/14 - 2



Indicator Showing Sealing

FIGURE 6/18/14 - 3



Schematic of Weighhead