



**Australian Government**  
**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

## **Certificate of Approval**

### **NMI 6/18/17C**

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.

A & D Australasia Model OHT-600 Overhead-track Weighing Instrument

submitted by           A & D Australasia Pty Ltd  
                                  32 Dew Street  
                                  Thebarton   SA    5031

**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 becomes subject to review on **1/11/19**, and then every 5 years thereafter.

#### DOCUMENT HISTORY

<b>Rev</b>	<b>Reason/Details</b>	<b>Date</b>
0	Pattern & variant 1 approved – certificate issued	7/10/02
1	Pattern & variant 1 amended (Figure 1 replaced) & reviewed – certificate issued	24/04/08
2	Pattern amended (name & make) – variants 2 to 4 approved – certificate issued	16/02/10
3	Pattern & variants 1 to 4 reviewed & updated – certificate issued	23/04/14

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI (or NSC) 6/18/17C' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI (or NSC) 6/18/17C' in addition to the approval number of the instrument, 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 S1/0/A and 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*.



M Zamora

TECHNICAL SCHEDULE No 6/18/17C

**1. Description of Pattern** **approved on 1/10/02**

An A & D Australasia model OHT-600 class  overhead-track non-automatic weighing instrument of 600 kg maximum capacity. May also be known as 'A & D' or 'A & D Mercury' instruments of the same model.??

**1.1 Trackwork**

The model OHT-600 trackwork (Figure 1) is approved for use with up to 3000 verification scale intervals, has the weigh-rail up to 1220 mm long supported by two load cells.

**1.2 Load Cells**

Two Kelba model KA1000 C3 load cells of 1000 kg capacity, as described in the documentation of approval NMI/NSC No S155B are used.


Note that only this make, model and capacity of load cell shall be used.

**1.3 Indicator**

An A & D model AD-4407 digital indicator is used. The indicator is also described in the documentation of approval NMI No S451.

**1.4 Descriptive Markings**

Instruments carry the following markings:

Manufacturer's mark, or name written in full	.....
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 numbers of the load cells (#)	.....
Pattern approval mark for the instrument	NMI/NSC 6/18/17C
Pattern approval mark for the indicator	NMI/NSC .....

\* These markings shall also be repeated adjacent to each reading face, if they are not already located there.

# Alternatively, these may be marked on a nameplate for the trackwork.

**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 for the indicator.

**2. Description of Variant 1** **approved on 1/10/02**

With 'check stops' fitted as shown in Figure 2 to limit movement of the weigh-rail.

**3. Description of Variant 2** **approved on 16/02/10**

With the model OHT-600 trackwork as described for the pattern now using two A&D model LCM13T001 load cells of 1000 kg maximum capacity as described in the documentation of approval NMI S446.

Note that only this make, model and capacity of load cell shall be used.

**4. Description of Variant 3** **approved on 16/02/10**

With a model OHT-300 trackwork which is similar to the pattern having the weigh-rail up to up to 1220 mm long but now supported by two A&D model LCM13K500 load cells of 500 kg maximum capacity.

Note that only this make, model and capacity of load cell shall be used.

Instruments are of 300 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

**5. Description of Variant 4** **approved on 16/02/10**

Variants 2 or 3 used with an A&D model AD-4406 or AD-4405 digital indicator. The indicators are also described in the documentation of approval NMI S451.

#### TEST PROCEDURE

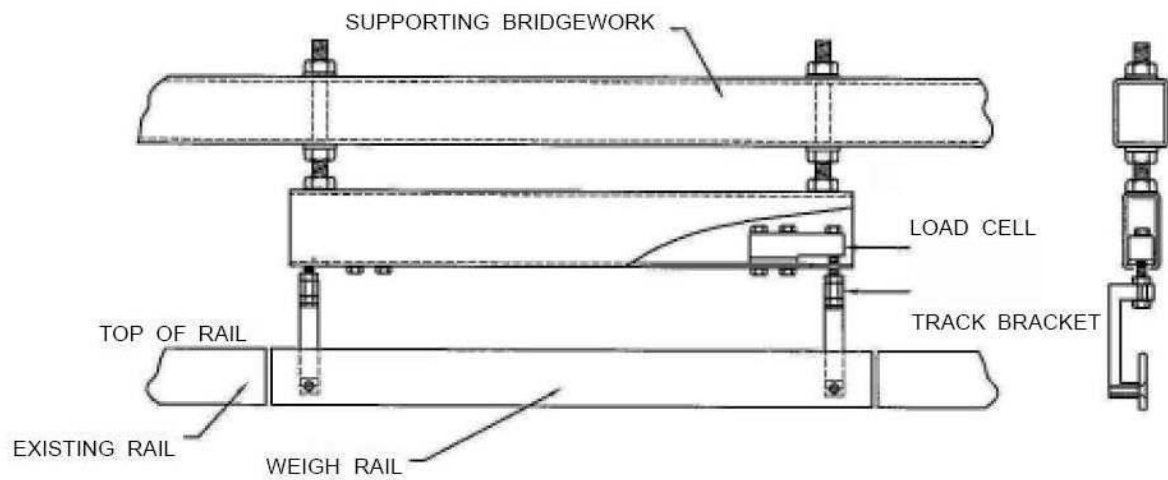
Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

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

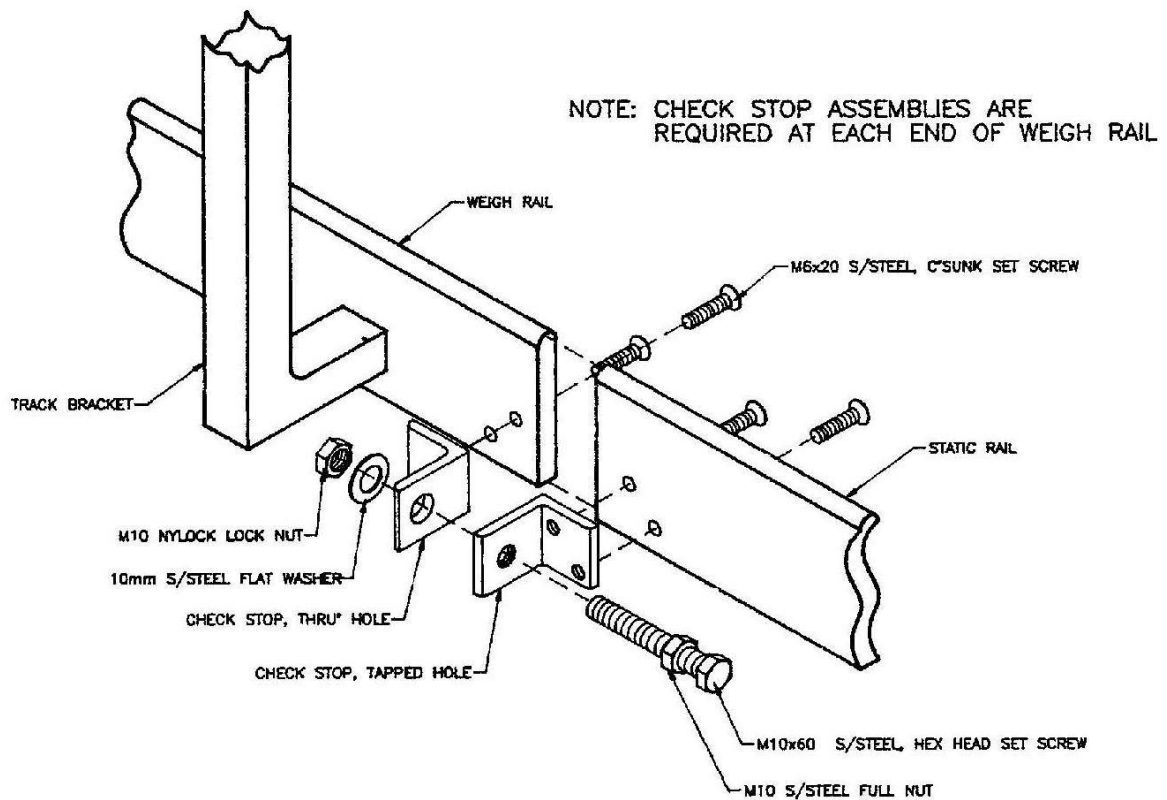
The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE 6/18/17C – 1



A & D Australasia Model OHT-600 Trackwork

FIGURE 6/18/17C – 2



A & D Australasia Model OHT-600 Trackwork With 'Check Stops'