



Australian Government

National Measurement  
Institute

Bradfield Road, West Lindfield NSW 2070

# **Notification of Change**

## **Certificate of Approval No 6/9C/287**

### **Change No 1**

Issued by the Chief Metrologist under Regulation 60  
of the  
*National Measurement Regulations 1999*

The following changes are made to the approval documentation for the

A1 Weighing Equipment Model DKP3000 Weighing Instrument

submitted by      A1 Weighing Equipment Pty Ltd  
                         31 Mort Street  
                         Toowoomba    QLD    4350.

In Certificate of Approval No 6/9C/287 dated 10 March 2006;

1.      The Condition of Approval referring to the review of the approval should be amended to read:  
                         "This approval becomes subject to review on 1 February **2016**, and then every 5 years thereafter."
2.      The FILING ADVICE should be amended by adding the following:  
                         "Notification of Change No 1 dated 30 March 2011"

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

A handwritten signature in black ink, consisting of stylized cursive letters, positioned above a horizontal line.



**Australian Government**

**National Measurement  
Institute**

12 Lyonpark Road, North Ryde NSW 2113

**Certificate of Approval**

**No 6/9C/287**

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

A1 Weighing Equipment Model DKP3000 Weighing Instrument

submitted by        A1 Weighing Equipment Pty Ltd  
                             31 Mort Street  
                             Toowoomba    QLD    4350.

**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.

**CONDITIONS OF APPROVAL**

 This approval becomes subject to review on 1 February 2011, and then every  
5 years thereafter.

Instruments purporting to comply with this approval shall be marked with  
approval number 'NMI 6/9C/287' 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.

The National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

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

The pattern as approved herein or with substitute approved load cells and/or approved indicators and in other capacities, or with different platform sizes, 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.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

#### DESCRIPTIVE ADVICE

**Pattern:** approved 13 January 2006

- A1 Weighing Equipment model DKP3000 self-indicating weighing instrument of 3000 kg maximum capacity.

**Variants:** approved 13 January 2006

1. Various models of the DKP3000 series in capacities up to 149 999 kg.
2. With the load receptor in the form of a hopper or bag.

Technical Schedule No 6/9C/287 describes the pattern and variants 1 & 2.

#### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/9C/287 dated 10 March 2006  
Technical Schedule No 6/9C/287 dated 10 March 2006 (incl. Test Procedure)  
Figures 1 and 2 dated 10 March 2006

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



TECHNICAL SCHEDULE No 6/9C/287

**Pattern:** A1 Weighing Equipment Model DKP3000 Weighing Instrument  
**Submittor:** A1 Weighing Equipment Pty Ltd  
31 Mort Street  
Toowoomba QLD 4350

**1. Description of Pattern**

An A1 Weighing Equipment model DKP3000 self-indicating weighing instrument of 3000 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

**1.1 Basework**

The model DKP3000 basework (Figure 1) has the load receptor directly supported by load cells fitted with self-aligning supporting feet.

This model basework has nominal dimensions of 1200 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 Nuweigh model JAC-1000 load cells of 1000 kg capacity are used and are mounted as shown in Figure 1. The load cells are also described in the documentation of approval NSC S416.

**1.3 Indicator**

A Rinstrum model 5000 digital indicator is used. The indicator is described in the documentation of approval NSC S363.

**1.4 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 level indicator. Adjacent to the level indicator is a notice stating 'instrument must be level when in use', or similar wording.

**1.5 Verification/Certification Provision**

Provision is made for the application of a verification/certification mark.

## 1.6 Sealing Provision

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

## 1.7 Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	A1 Weighing Equipment Pty Ltd
Indication of accuracy class	Ⓜ
Maximum capacity	<i>Max</i> ..... kg *
Minimum capacity	<i>Min</i> ..... kg *
Verification scale interval	<i>e</i> = ..... kg *
Tare capacity (if less than <i>Max</i> )	<i>T</i> = - ..... kg
Serial number of the instrument	.....
Pattern approval mark for the instrument	6/9C/287
Pattern approval mark for the load cells	S...
Pattern approval mark for the indicator	S...

- \* These markings shall also be shown near the display of the result if they are not already located there.

## 2. Description of Variants

### 2.1 Variant 1

Various models of the A1 Weighing Equipment DKP series in capacities as listed below, provided that instruments comply with General Certificate No 6B/0:

- from 100 kg up to 1499 kg; and
- from 1500 kg up to 14 999 kg; and
- from 15 000 kg up to 149 999 kg.

### 2.2 Variant 2

Other instruments in the A1 Weighing Equipment DKP series with the load receptor in the form of a hopper or bag suspended from the base frame (Figure 2) in capacities from 100 kg up to 1499 kg, or from 1500 kg to 14 999 kg, or from 15 000 kg up to 149 999 kg.

Suitable provision must be made for the application of suitable verified masses to the instrument as required for verification and certification purposes. It may be necessary for such masses to be incorporated within the design of the instrument.

## TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Uniform Test Procedures.

### **Maximum Permissible Errors at Verification/Certification**

For single range instruments, the maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads,  $m$ , expressed in verification scale intervals,  $e$ , are:

- $\pm 0.5e$  for loads  $0 \leq m \leq 500$ ;
- $\pm 1.0e$  for loads  $500 < m \leq 2\,000$ ; and
- $\pm 1.5e$  for loads  $2\,000 < m \leq 10\,000$ .

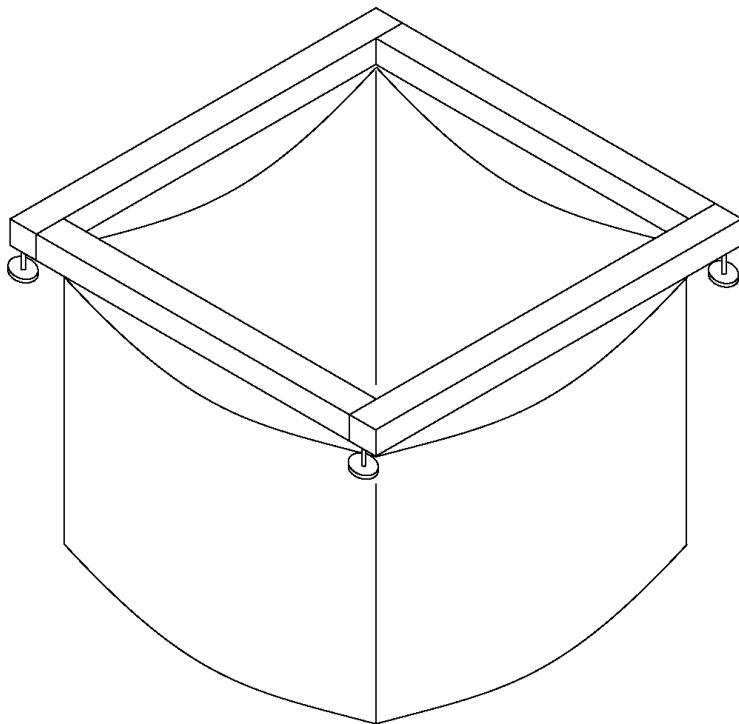
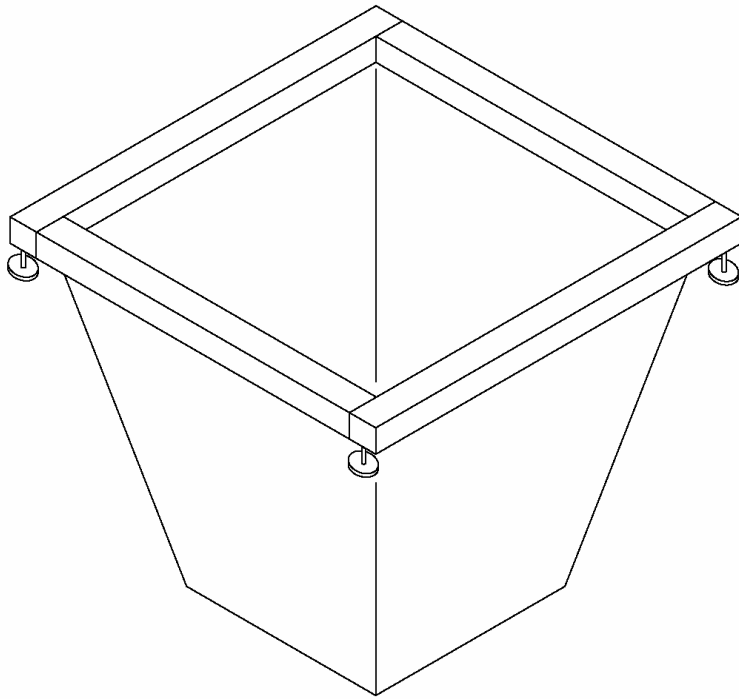
FIGURE 6/9C/287 – 1



A1 Weighing Equipment Model DKP3000 Weighing Instrument

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FIGURE 6/9C/287 – 2



Typical Variant 2 Instruments