



**Australian Government**  
**Department of Industry, Science,  
Energy and Resources**

**National  
Measurement  
Institute**

36 Bradfield Road, West Lindfield NSW 2070

**Certificate of Approval**

**NMI 6/4C/312**

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 Model SJ-15KWP-BT 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 October 2015.

This approval becomes subject to review on 1/02/25, and then every 5 years thereafter.

**DOCUMENT HISTORY**

<b>Rev</b>	<b>Reason/Details</b>	<b>Date</b>
0	Pattern & variants 1 to 3 approved – certificate issued	16/01/20
1	Variants 1 & 2 amended (Tables 1 & 2 corrected) – certificate issued	02/03/20

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 6/4C/312' 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.

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 6/4C/312

**1. Description of Pattern** **approved on 16/01/20**

The A&D model SJ-15KWP-BT class  $\text{\textcircled{III}}$  non-automatic multi-interval self-indicating weighing instrument (Figure 1 and Table 1) with a verification scale interval  $e_1$  of 0.002 kg up to 6 kg and with a verification scale interval  $e_2$  of 0.005 kg from 6 kg up to 15 kg. The minimum capacity is 0.04 kg.

The instrument is fitted with one LCD display for display of the weight value.

The instrument operates from 6 x D size 1.5 V batteries.

Instruments shall be marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording).

**1.1 Zero**

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

A zero-tracking device may be fitted.

**1.2 Tare**

A semi-automatic subtractive tare device of up to maximum capacity may be fitted.

**1.3 Alternative Units**

Use of units other than grams (g) or kilograms (kg) is not approved for trade use.

**1.4 Display Check**

A display check is initiated whenever power is applied.

**1.5 Levelling**

The instrument is provided with adjustable feet and a level indicator.

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

**1.6 Interfaces**

The indicator may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. Any interfaces shall comply with clause 5.3.6 of document NMI R 76 (the basic intent of which is that it shall not be possible to alter weighing results via the interfaces).

Any measurement data output from the instrument or its interfaces shall only be used for trade in compliance with NMI General Supplementary Certificate No S1/0B (in particular in regard to the data and its format).

Indications other than the indications of measured mass (i.e. gross, tare, net, totals) displayed either on the indicator or on an auxiliary or peripheral device, are not for trade use.

Instruments may be fitted with Bluetooth interface.

## 1.7 Additional Features

Instruments may be fitted with a number of additional functions including comparator (LO, OK and HI) and counting ('pcs'). The additional functions (other than the indications of measured mass, i.e. gross, tare, net, totals, displayed either on the indicator or on an auxiliary or peripheral device) are not approved for trade use.

## 1.8 Verification Provision

Provision is made for the application of a verification mark.

## 1.9 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	A & D Company Limited
Name or mark of manufacturer's agent	A & D Australasia Pty Ltd
Indication of accuracy class	Ⓜ
Pattern approval mark for the instrument	NMI 6/4C/312
Maximum capacity	Max ...../..... g or kg #
Minimum capacity	Min ..... g or kg #
Verification scale interval	e = ...../..... g or kg #
Serial number of the instrument	.....

# These markings are shown near the display of the result.

In addition, instruments shall carry a notice stating NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

## 1.10 Sealing Provision

Provision is made for access to the calibration switch which is located underneath the instrument to be sealed by means of using lead and wire type seals with drilled screws or placing destructible adhesive labels over the switch cover as shown in Figure 3.

## 1.11 Software

The software version is designated P-1.xx, where 'xx' represents the identification of non-legally relevant software.

The software version and number can be accessed by holding down the 'TARE' key and then pressing the 'ON/OFF' key.

## 2. Description of Variant 1

**approved on 16/01/20**  
**amended on 02/03/20**

Other SJ-WP-BT models in certain other capacities as listed in Table 1 (the pattern is shown in **bold**).

TABLE 1

Model Number	Maximum Capacity ( <i>Max<sub>1</sub>/Max<sub>2</sub></i> )	Minimum Capacity ( <i>Min</i> )	Verification Scale Interval ( <i>e<sub>1</sub>/e<sub>2</sub></i> )
SJ-3000WP-BT	1500/3000 g	10 g	0.5/1 g
	1.5/3 kg	0.01 kg	0.0005/0.001 kg
SJ-6000WP-BT	3000/6000 g	20 g	1/2 g
	3/6 kg	0.02 kg	0.001/0.002 kg
<b>SJ-15KWP-BT</b>	<b>6/15 kg</b>	<b>0.04 kg</b>	<b>0.002/0.005 kg</b>
SJ-30KWP-BT	15/30 kg	0.1 kg	0.005/0.01 kg

**3. Description of Variant 2**

**approved on 16/01/20  
amended on 02/03/20**

SJ-WP models which are similar to the pattern but without Bluetooth interface in certain capacities as listed in Table 2.

TABLE 2

Model Number	Maximum Capacity ( <i>Max<sub>1</sub>/Max<sub>2</sub></i> )	Minimum Capacity ( <i>Min</i> )	Verification Scale Interval ( <i>e<sub>1</sub>/e<sub>2</sub></i> )
SJ-3000WP	1500/3000 g	10 g	0.5/1 g
	1.5/3 kg	0.01 kg	0.0005/0.001 kg
SJ-6000WP	3000/6000 g	20 g	1/2 g
	3/6 kg	0.02 kg	0.001/0.002 kg
SJ-15KWP	6/15 kg	0.04 kg	2/5 g
SJ-30KWP	15/30 kg	0.1 kg	5/10 g

**4. Description of Variant 3**

**approved on 16/01/20**

The pattern and variants may be fitted with an A&D model AD-8931 remote display unit (Figure 2) via Bluetooth interface.

The model AD-8931 repeats the weight value of the SJ-AWP-BT instrument.

TEST PROCEDURE No 6/4C/312

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

**Maximum Permissible Errors**

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

FIGURE 6/4C/312 – 1



(a) A&D Model SJ-WP-BT / SJ-WP Weighing Instrument (Operator side)



(b) A&D Model SJ-WP-BT / SJ-WP Weighing Instrument (Back side)

FIGURE 6/4C/312 – 2



A&D Model AD-8931 External Display Unit

FIGURE 6/4C/312 – 3



(a) Lead and Wire Type Sealing Arrangement



(b) Destructible Adhesive Stickers Sealing Arrangement

Typical Sealing Arrangement

~ End of Document ~