

**Australian Government** 

National Measurement Institute Bradfield Road, West Lindfield NSW 2070

# **Certificate of Approval**

# No 6/4D/355

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

Optimas Model JSUP-15MR Weighing Instrument

submitted by Quorion Pty Ltd Unit 22, 7-9 Percy Street Auburn NSW 2144.

**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.

#### CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 September 2015, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 6/4D/355' 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.

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

#### **Special Condition of Approval:**

Certain aspects of this instrument (in particular label and ticket formats) are able to be configured by the user. Whilst NMI believes that acceptable label and ticket formats can be achieved for typical basic sales modes, it is also possible for the instrument to be configured to produce unacceptable formats, and use of some formats may be inappropriate for different sales modes. It is the responsibility of the user to ensure that acceptable and appropriate formats are used in any particular situation.

### DESCRIPTIVE ADVICE

Pattern: approved 20 August 2010

• An Optimas model JSUP-15MR class ID non-automatic multi-interval selfindicating price-computing weighing instrument of 15 kg maximum capacity.

Variant: approved 20 August 2010

1. Various models of the JSUP series in certain other capacities.

Technical Schedule No 6/4D/355 describes the pattern and variant 1.

### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4D/355 dated 10 September 2010 Technical Schedule No 6/4D/355 dated 10 September 2010 (incl. Table 1 and Test Procedure) Figures 1 and 2 dated 10 September 2010

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 6/4D/355

Pattern: Optimas Model JSUP-15MR Weighing Instrument

Submittor: Quorion Pty Ltd Unit 22, 7-9 Percy Street Auburn NSW 2144

#### 1. Description of Pattern

An Optimas model JSUP-15MR class non-automatic self-indicating pricecomputing multi-interval weighing instrument (Figure 1 and Table 1) with a verification scale interval ( $e_1$ ) of 0.002 kg up to 6 kg and a verification scale interval ( $e_2$ ) of 0.005 kg from 6 kg up to the maximum capacity of 15 kg.

Instruments are fitted with a double sided column-mounted liquid crystal display (LCD) type display.

The platter size of the instrument is 370 mm × 240 mm.

Instruments have unit price to \$9999.99/kg, price to \$9999.99, and a product look up (PLU) facility for storing unit price only.

Power may be supplied by either:

- an AC/DC mains adaptor; or
- an internal rechargeable 6 V battery.
- Note: The AC/DC mains adaptor supplied was a Yunsheng Plastic Electronic model YS01-120050A (output: 12 V DC, 500 mA) the submittor should be consulted regarding the acceptability of alternative power supply units).

Instruments may be fitted with output sockets (output interfacing capability) for the connection of peripheral and/or auxiliary devices.

#### 1.1 Zero

A zero-tracking device may be fitted.

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.

#### 1.2 Tare

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

#### 1.3 Display Check

A display check is initiated whenever power is applied.

#### 1.4 Levelling

The instrument is provided with adjustable feet and adjacent to the level indicator is a notice stating 'Instrument must be level when in use'.

#### 1.5 Verification Provision

Provision is made for the application of a verification mark.

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## 1.6 Sealing Provision

The instrument may be sealed by sealing access to the calibration switch and sealing access to within the instrument housing, as shown in Figure 2.

## **1.7 Descriptive Markings and Notices**

Instruments carry the following markings:

Manufacturer's mark, or name written in full Name or mark of manufacturer's agent	Taiwan Scale Mfg. Co., Ltd. Quorion Pty Ltd
Indication of accuracy class	
Pattern approval mark for the instrument	NMI 6/4D/355
Maximum capacity	<i>Max</i> / g or kg   #1
Minimum capacity	<i>Min</i> g or kg   #1
Verification scale interval	e =/ g or kg #1
Maximum subtractive tare	<i>T</i> = g or kg #2
Serial number of the instrument	

- #1 These markings are also shown near the display of the result if they are not already located there.
- #2 This marking is required if *T* is not equal to *Max*.

## 2. Description of Variant 1

Other models of the JSUP series of multi-interval instruments of certain other capacities as listed in Table 1 below (the pattern, JSUP-15MR, is shown in **bold** type). The numeral suffix in the model number represents the maximum capacity in kilograms.

Model	Maximum Capacity ( <i>Max</i> 1/Max2)	Minimum Capacity ( <i>Min</i> )	Verification Scale Interval (e1,e2)	Maximum Tare Capacity ( <i>T</i> =)
JSUP-15MR	6/15 kg	0.04 kg	0.002/0.005 kg	15 kg
JSUP-30MR	15/30 kg	0.1 kg	0.005/0.01 kg	30 kg
JSUP-45MR	30/45 kg	0.2 kg	0.01/0.02 kg	45 kg

TABLE 1

Approved Capacities of Multi-interval Instruments

## TEST PROCEDURE

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

## Maximum Permissible Errors

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

For multi-interval instruments with verification scale intervals of  $e_1$ ,  $e_2$  ..., apply  $e_1$  for zero adjustment, and maximum permissible errors apply  $e_1$ ,  $e_2$  ..., as applicable for the load.

FIGURE 6/4D/355 - 1



Optimas Model JSUP-15MR Weighing Instrument

### FIGURE 6/4D/355-2



Typical Sealing of JSUP Series