



Australian Government

National Measurement  
Institute

Bradfield Road, West Lindfield NSW 2070

## Certificate of Approval

### NMI 6/4D/361

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.

Bizerba Model SC II 200 Weighing Instrument

submitted by Bizerba Australia Pty Ltd  
Unit 22, 37 Keilor Park Drive  
Keilor Park VIC 3042

**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 1/10/16, and then every 5 years thereafter.

#### DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 to 7 – certificate issued	15/09/11

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 6/4D/361' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI 6/4D/361' in addition to the approval number of the instrument, 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.

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

### Special

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.

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, likely representing the Chief Metrologist.

## TECHNICAL SCHEDULE No 6/4D/361

### 1. Description of Pattern

approved on 15/09/11

A Bizerba model SC II 200 (Figure 1) class  $\text{III}$  non-automatic self-indicating price-computing multi-interval weighing instrument with a verification scale interval ( $e_1$ ) of 2 g up to 6 kg and a verification scale interval ( $e_2$ ) of 5 g from 6 kg up to the maximum capacity of 15 kg.

The instrument has an operator keyboard and display integrated into the instrument body, and a column-mounted customer display. Each display is a monochrome liquid crystal (LCD) dot matrix type, on which weight, unit price and price information, together with alphanumeric information relating to product look up (PLU) items, is displayed. In addition when a tare or pre-set tare is operational a display of the tare value is provided.

Instruments are fitted with an integral printer, for printing of labels or tickets.

Instruments have unit price to \$999.99/kg, price to \$9999.99, and have a product look up (PLU) facility.

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

The instrument operates from mains AC power (240 V AC, 50 Hz).

#### 1.1 Zero

The initial zero-setting device has a nominal range of approximately 20% of the maximum capacity of the instrument.

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

One of the instrument keys may be configured to operate 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. In addition, a keyboard-entered pre-set subtractive tare device of up to 6 kg maximum capacity may be fitted.

Pre-set tare values may be associated with product look up (PLU) items.

A separate display of the tare value is provided whenever a tare is active.

#### 1.3 Display Check

A display check is initiated whenever power is applied.

#### 1.4 Levelling

The instrument is provided with adjustable feet and a level indicator, and adjacent to the level indicator is a notice advising that the instrument must be level when in use or similar wording.

## 1.5 Networking

Instruments may be connected in a network with compatible approved Bizerba instruments, to share common PLU data, for totalisation across instruments, and to accumulate and retrieve management information.

In addition, the instrument may be interfaced with a computer for the collection of management data, the downloading of PLU data.

Note: The weighing and price computing functions of each weighing instrument in the network are independent, and the removal, repair or replacement of a particular weighing instrument does not necessitate re-verification of any other weighing instrument in the network.

## 1.6 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Bizerba, Germany
Name or mark of manufacturer's agent	Bizerba, Australia
Indication of accuracy class	III
Pattern approval mark for the instrument	NMI 6/4D/361
Maximum capacity	<i>Max</i> ..... g or kg #1
Minimum capacity	<i>Min</i> ..... g or kg #1
Verification scale interval	<i>e</i> = ..... 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 <i>T</i> is not equal to <i>Max</i> .

Note:

For multi-interval instruments the markings shall be as above, with the exception that the 'Maximum capacity' and 'Verification scale interval' shall be marked for both interval ranges, e.g. as follows:

Maximum capacity	<i>Max</i> ...../..... g or kg
Verification scale interval	<i>e</i> = ...../..... g or kg

## 1.7 Verification Provision

Provision is made for the application of a verification mark.

## 1.8 Sealing Provision

Provision is made for the calibration adjustments and configuration parameters to be sealed by means of a destructible label placed over the screw used to prevent removal of the plate that provides access to the calibration switch (Figure 2).

## 2. Description of Variant 1

approved on 15/09/11

The pattern or variants as multi-interval instruments of certain other capacities as listed in Table 1 below (the pattern is shown in **bold**).

TABLE 1

Maximum Capacity ( <i>Max<sub>1</sub>/Max<sub>2</sub></i> )	Verification Scale Interval ( <i>e<sub>1</sub>/e<sub>2</sub></i> )	Minimum Capacity ( <i>Min</i> )
3 / 6 kg	1 / 2 g	20 g
<b>6 / 15 kg</b>	<b>2 / 5 g</b>	<b>40 g</b>
15 / 30 kg	5 / 10 g	100 g

## 3. Description of Variant 2

approved on 15/09/11

The pattern or variants as a single interval instrument of 30 kg maximum capacity with a verification scale interval of 5 g. A semi-automatic subtractive tare device and/or a keyboard-entered pre-set subtractive tare device, each of up to the maximum capacity, may be fitted.

## 4. Description of Variant 3

approved on 15/09/11

The Bizerba model SC II 100 instrument which is similar to the pattern (model SC II 200) but has the customer display integrated into the instrument body (Figure 3).

The model SC II 100 G which is similar to the model SC II 100 but has the basework in a separate unit to the display/printer (Figure 3).

The model SC II 100 and 100 G instruments may be in any capacity listed for variants 1 and 2.

## 5. Description of Variant 4

approved on 15/09/11

The Bizerba model SC II 400 instrument which is similar to the pattern but with a suspended load receptor (Figure 3).

The model SC II 400 instrument may be in any capacity listed for variants 1 and 2.

## 6. Description of Variant 5

approved on 15/09/11

Certain models of the SC II 500 series (Figure 3) as listed below.

- Model SC II 500 SB1/QS1 which is similar to the pattern (model SC II 200) but with the display, printer and keyboard mounted on a column. It has an additional PLU keyboard with up to 96 keys.
- Model SC II 500 SB2/QS2 which is similar to the model SC II 500 SB1/QS1 but has two additional PLU keyboards each with up to 96 keys.
- Model SC II 500 530/60 which is similar to the model SC II 500 SB1/QS1 but is intended for self-service operation only, and all the operator interface keys of the pattern (other than the PLU keyboards) are covered.

The use of the totalisation across instruments arrangement is not approved in this self-service arrangement.

The model SC II 500 instruments may be in any capacity listed for variants 1 and 2.

**7. Description of Variant 6**

**approved on 15/09/11**

The Bizerba model SC II 800 instrument (Figure 3) is similar to the pattern (model SC II 200) but with the display, printer and keyboard mounted on a column.

The model SC II 800 instruments may be in any capacity listed for variants 1 and 2.

**8. Description of Variant 7**

**approved on 15/09/11**

The Bizerba model SC II 7 instrument is similar to the pattern (model SC II 200) and variant 6 (model SC II 800) but has a colour LCD customer display.

**TEST PROCEDURE No 6/4D/361**

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*.

**Tests**

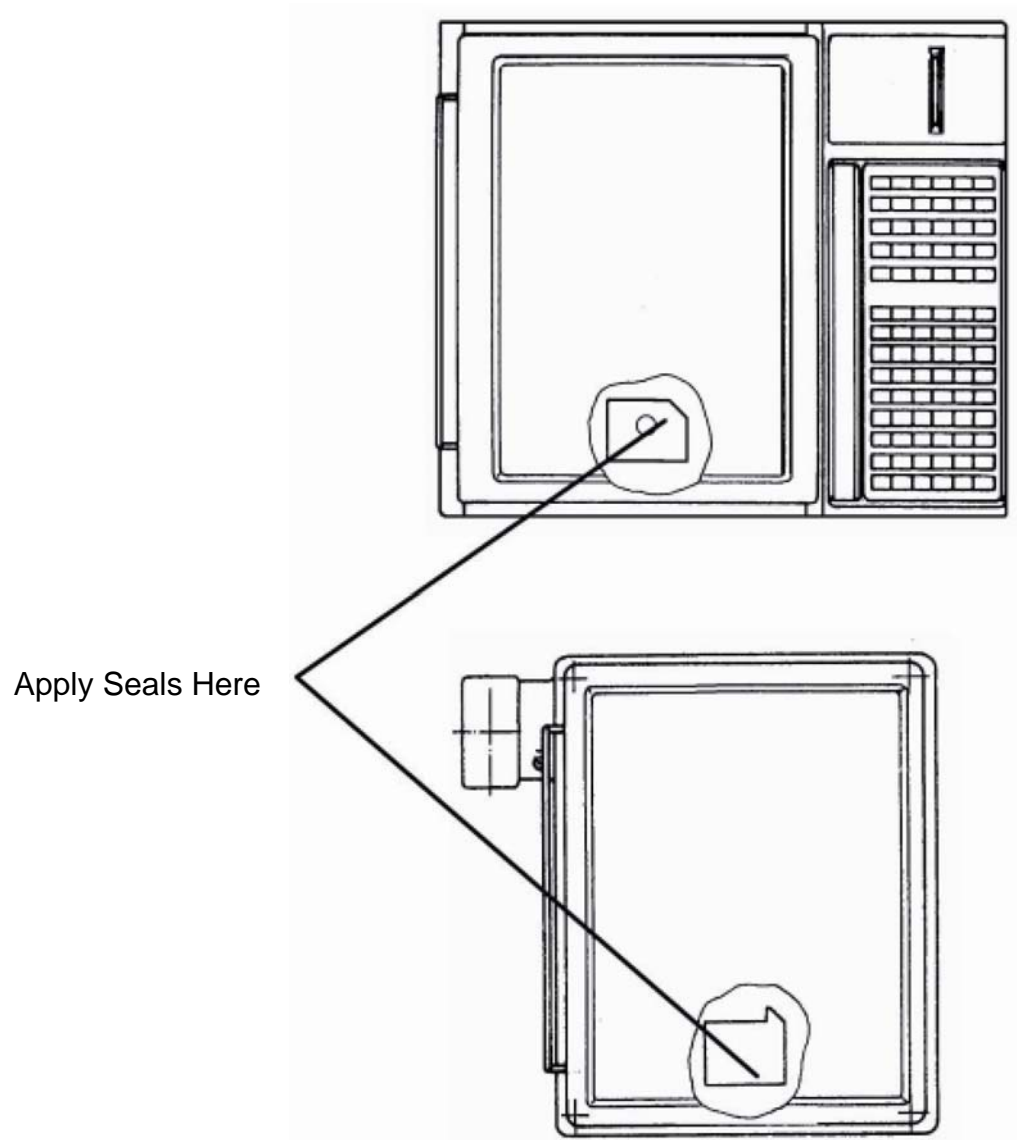
For multi-interval and multiple range instruments with verification scale intervals of  $e_1, e_2 \dots$ , apply  $e_1$  for zero adjustment, and maximum permissible errors apply  $e_1, e_2 \dots$ , as applicable for the load.

FIGURE 6/4D/361 – 1



Bizerba Model SC II 200 Weighing Instrument

FIGURE 6/4D/361 – 2



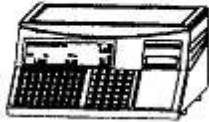
Typical Mechanical Sealing of Bizerba SC II Series



FIGURE 6/4D/361 – 3

**SC II 100 - 200**

...100



...100 G



...200



**SC II 800**

...800

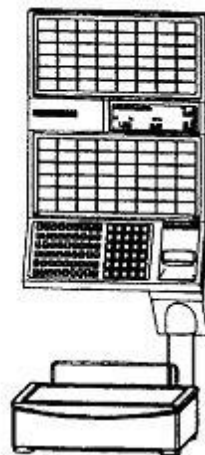


**SC II 500**

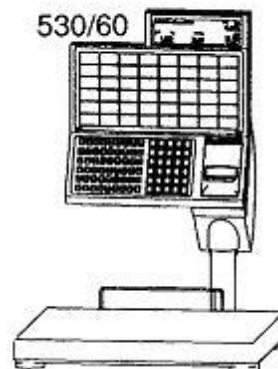
SB1/QS1



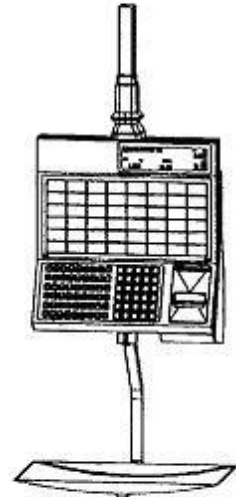
SB2/QS2



530/60



**SC II 400**



Overview of Bizerba SC II Series

~ End of Document ~