



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation
Certificate of Approval
No 6/4D/329

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

This is to certify that the approval for use for trade granted in respect of the

Bizerba Model EC 100 Weighing Instrument

submitted by Toshiba TEC Australia Pty Ltd
 Unit 1, 9-11 South Street
 RYDALMERE NSW 2116

has been cancelled in respect of new instruments as from 1 May 2012.

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 a series of loops and flourishes, positioned to the right of the signature text.



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of the

Bizerba Model EC 100 Weighing Instrument

submitted by Toshiba TEC Australia Pty Ltd
Unit 1, 9-11 South Street
RYDALMERE NSW 2116.

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 August 2011, and then every
5 years thereafter.

Instruments purporting to comply with this approval shall be marked
NMI 6/4D/329 and only by persons authorised by the submittor.

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.

DESCRIPTIVE ADVICE

Pattern: approved 27 July 2006

- A Bizerba model EC 100 multi-interval self-indicating price-computing weighing instrument with a maximum capacity of 15 kg.

Variants: approved 27 July 2006

1. Certain other models of the EC series.
2. Certain multi-interval instruments of other capacities.
3. Certain single interval instruments of various capacities.

Technical Schedule No 6/4D/329 describes the pattern and variants 1 to 3.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4D/329 dated 29 August 2006
Technical Schedule No 6/4D/329 dated 29 August 2006 (incl. Test
Procedure)
Figures 1 to 4 dated 29 August 2006

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, appearing to be 'J. G. T.', located in the bottom right corner of the page.

TECHNICAL SCHEDULE No 6/4D/329

Pattern: Bizerba Model EC 100 Weighing Instrument

Submittor: Toshiba TEC Australia Pty Ltd
Unit 1, 9-11 South Street
RYDALMERE NSW 2116

1. Description of Pattern

A Bizerba model EC 100 multi-interval self-indicating price-computing weighing instrument (Figure 1) with a verification scale interval of 0.002 kg up to 6 kg and with a verification scale interval of 0.005 kg from 6 kg up to 15 kg.

Instruments are fitted with the operator and customer displays, and the keyboard integral within the main body of the instrument. The displays are liquid crystal display (LCD) panels.

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

The instrument operates from mains AC power (230 V AC, 50 Hz) or by batteries (to 12 V DC) – typically 6 x D cell (NiCd).

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e$ whenever power is applied and whenever the instrument comes to rest within $0.5e$ of 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.

The instrument has an automatic zero setting device (which operates only when the instrument has been stable below zero for at least 5 seconds) with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic and/or non-automatic keyboard-entered pre-set subtractive tare device, each up to 6 kg maximum capacity of the instrument, may be fitted.

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

A display of tare values is provided.

1.3 Levelling

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

1.4 Display Check

A display check is initiated whenever power is applied.

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 by securing the cover plate over the calibration switch (Figure 2).

1.7 Descriptive Markings

Instruments carry the following markings:

| | |
|--|------------------------------|
| Manufacturer's mark, or name written in full | Bizerba, Germany |
| Name or mark of manufacturer's agent | |
| Indication of accuracy class | Ⓜ |
| Pattern approval mark for the instrument | NMI 6/4D/329 |
| 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 *T* is not equal to *Max*.

2. Description of Variants

2.1 Variant 1

Certain other models of the EC series as listed below:

- (i) Model EC 200 F which is the same as the pattern, model EC 100, except that the customer display is mounted on a column (Figure 3).
- (ii) Model EC 100 E which is the same as the pattern, model EC 100, except that the instrument does not have a price-computing facility, and displays mass only (Figure 4).

2.2 Variant 2

As multi-interval instruments of certain other capacities as listed below:

- with a verification scale interval of 0.001 kg up to 3 kg and with a verification scale interval of 0.002 kg from 3 kg up to 6 kg.
The maximum semi-automatic and pre-set tare capacity is 3 kg; and
- with a verification scale interval of 0.005 kg up to 15 kg and with a verification scale interval of 0.01 kg from 15 kg up to 30 kg.
The maximum semi-automatic and pre-set tare capacity is 15 kg.

2.3 Variant 3

The pattern or variants as single interval instruments of certain capacities as listed below:

- of 6 kg maximum capacity with a verification scale interval of 0.002 kg.
The maximum tare capacity is 6 kg;
- of 15 kg maximum capacity with a verification scale interval of 0.005 kg.
The maximum tare capacity is 9.995 kg; and
- of 30 kg maximum capacity with a verification scale interval of 0.010 kg.
The maximum tare capacity is 30 kg.

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 $2\,000 < m \leq 10\,000$.

For multi-interval 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.



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Notification of Change
Certificate of Approval No 6/4D/329
Change No 1

Issued by the Chief Metrologist under Regulation 60
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The following changes are made to the approval documentation for the
Bizerba Model EC 100 Weighing Instrument

submitted by Toshiba TEC Australia Pty Ltd
Unit 1, 9-11 South Street
RYDALMERE NSW 2116.

- A. In Certificate of Approval No 6/4D/329 dated 29 August 2006, the FILING ADVICE should be amended by adding the following:
"Notification of Change No 1 dated 2 April 2007"
- B. In Technical Schedule No 6/4D/329 dated 29 August 2006, clause **1.7 Descriptive Markings** should be amended by adding the following footnote:
"Note: Multi-interval instruments are marked with the 'Maximum capacity' and with the 'Verification scale interval' for both interval ranges, in addition to the other data specified above."

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to exercise his powers under Regulation 60 of the
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FIGURE 6/4D/329 – 1



Bizerba Model EC 100 Weighing Instrument

FIGURE 6/4D/329 – 2

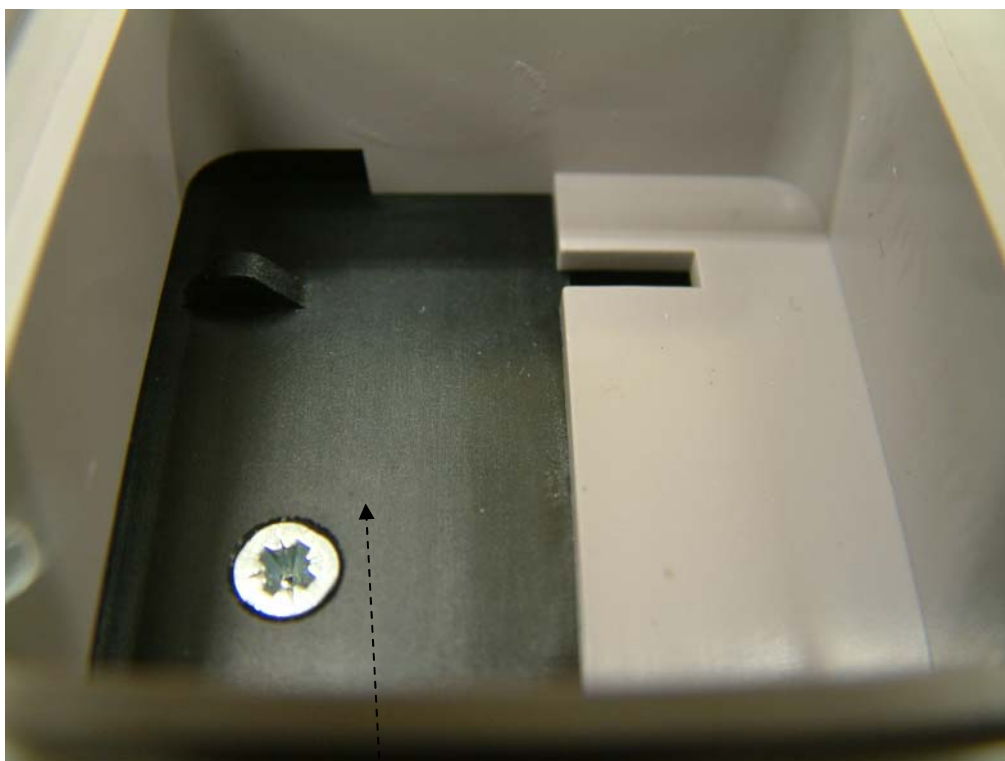


Plate over calibration access
to be sealed

Sealing of Calibration Access

FIGURE 6/4D/329 – 3



Bizerba Model EC 200 F

FIGURE 6/4D/329 – 4



Bizerba Model EC 100 E