Australian Government
Department of Industry, Science and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/14G/30

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 WM-CWL series Model CWL-L Automatic Catchweighing Instrument

submitted by Bizerba Australia Pty Ltd
1/575 Darling Street
Rozelle NSW 2039

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 51, *Automatic Catchweighing Instruments*, dated August 2009.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern provisionally approved – interim certificate issued	8/03/18
1	Pattern amended, variants 1 and 2 provisionally approved – interim certificate issued	24/05/18
2	Validation date amended – interim certificate issued	28/06/18
3	Validation date amended – interim certificate issued	28/03/19
4	Pattern, variants 1 and 2, and validation date amended – interim certificate issued	25/07/19
5	Pattern amended & variants 1 to 7 approved – certificate issued	09/10/19

DOCUMENT HISTORY (cont...)

Rev	Reason/Details	Date
6	Variant 8 approved – certificate issued	11/04/22
7	Variant 9 approved – certificate issued	06/06/24

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/14G/30' and only by persons authorised by the submittor.

Instruments purporting to comply with this approval and currently marked 'NMI P6/14G/30' may be re-marked 'NMI 6/14G/30' but 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.

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

This approval shall NOT be used in conjunction with General Certificate of Approval No 6B/0.

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

Mario Zamora
A/g Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No 6/14G/30

1. Description of Pattern **Provisionally approved on 8/03/18 approved on 09/10/19**

A Bizerba WM-CWL series, model CWL-L class Y(a) automatic catchweighing instrument (Figure 1) which is approved for use to weigh objects while in motion.

1.1 Details

A Bizerba WM-CWL series, model CWL-L is a class Y(a) single interval automatic catchweighing instrument with a maximum capacity of 16 kg, with a verification scale interval (*e*) of 0.005 kg, and with a minimum capacity of 0.1 kg.

The instrument is approved for use over a temperature range of 0 °C to +40 °C, and must be so marked.

The instrument operates dynamically (package in motion on the load receptor) with a weighing conveyor speed of up to 3.0 m/s.

The instrument has facilities to detect errors and provide error messages for situations close to and outside the limits.

Instruments may be fitted with data sockets (output interfacing capability) for the connection of peripheral and/or auxiliary devices, and for the external programming of PLU and labelling data.

The instrument comprises:

- A terminal/indicator unit with an LCD display and keypad.
- A weighing conveyor unit with associated controllers.
- Infeed and outfeed conveyors may be provided at each end of the weigh conveyor.
- Optical sensors at the infeed and outfeed ends of the weigh conveyor.

1.2 Operation

The weighing is performed dynamically (operation in motion). In this case, an object to be weighed moves from the infeed conveyor onto the weighing receptor conveyor and is weighed dynamically. After weighing, the object moves onto the outfeed conveyor.

If the instrument is unable to obtain an acceptable weight reading, error messages are displayed.

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

The automatic zero-setting device must be active and operate at least once every 35 minutes during automatic operation.

A zero-tracking device may be fitted.

1.4 Tare

A semi-automatic subtractive tare device and/or pre-set subtractive tare device, each of up to 40% of maximum tare capacity, may be fitted.

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

A separate display of tare values is provided.

1.5 Terminal/Indicator

The instrument is fitted with a Bizerba model iS50 terminal/indicator (Figure 3a) which has an LCD display and keyboard. This is used to control the system and store data such as system parameters. It displays the weight (in kg).

The terminal/indicator is fitted with a Bizerba model WM data processing board.

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

1.6 Weighing Unit

The weighing unit uses four Flintec model SB6-50kg C4 Y20400 load cells of 50 kg maximum capacity at each corner of the Bizerba belt conveyor type load receptor which has a belt conveyor of 1200 mm x 400 mm.

1.7 Additional Features

Instruments may also be provided with an integrated data storage device (DSD).

For each weighing request, weighing results together with identification including date and time are stored into the storage device.

Data from the storage device shall only be used for trade if the format of the output complies with NMI General Supplementary Certificates of Approval No S1/0B.

1.8 Interfaces

Instruments may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. Any interfaces shall comply with clause 4.2.4 of document NMI R51 (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 Supplementary Certificate of Approval 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 instrument or on an auxiliary or peripheral device, are not for trade use.

Instruments may be fitted with USB, Ethernet, RS422, RS232, Profibus-DP, Profinet I/O interfaces.

1.9 Verification Provision

Provision is made for the application of a verification mark.

1.10 Levelling

Instruments are provided with adjustable feet and a level indicator where they are not installed in a permanently fixed location.

1.11 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Bizerba SE & Co KG, Germany	
Importer's mark, or name written in full	Bizerba Australia	
Model designation	…..	
Serial number	…..	
Accuracy class	Y(a)	
Maximum speed of load transport system	…….m/s	
Pattern approval mark	NMI 6/14G/30	
Maximum capacity	*Max* ...../..... g or kg	#1
Minimum capacity	*Min* ..... g or kg	#1
Verification scale interval	*e* = .../..... g or kg	#1
Maximum subtractive tare	*T* = - ..... g or kg	#2
Special temperature limits	0 °C to 40 °C	
Electrical supply voltage	…….V	
Electrical supply frequency	…….Hz	

#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*.

1.12 Sealing Provision

Provision is made for the configuration and calibration to be sealed by placing a link over the calibration pins and a destructible label over the securing cover on WM data processing board (Figure 4b).

The status of the link can be checked through the inspection window of model iS50 terminal/indicator (Figure 4a).

If the link is located over the calibration pins, the LED light within the inspection window is illuminated in yellow. In this case the instrument may be verified. Otherwise the LED light will not be illuminated in which case the instrument should not be verified until the link has been correctly located on WM data processing board.

1.13 Software

The software is separated into two parts, each with software ID, as listed in Table 1.

Table 1

	Software version	Software -ID
WM data processing board/module	ECn.07.xx (*)	sid.3B45
Terminal unit	emn.01.xx (*)	sid01.139e or sid02.47ec

(*) where 'xx' refers to the identification of non-legally relevant software.

The steps for accessing the software versions are as follows:

- Press and hold the i info key for at least 2 seconds.
- The 'bootlog scale' which stores software version number, software ID, checksum and other information for the WM data processing board/module will be automatically scrolled in the display (Figure 5).
- Press the ST key to access the 'bootlog terminal' which stores software version number, software ID, checksum and other information for the iS.. terminal.
- Press and hold the i info key for at least 2 seconds to exit.

2. Description of Variant 1 provisionally approved on 24/05/18 approved on 09/10/19

Instruments may also be known as a Bizerba model CWL-Eco^{Flexx} or WM-CWL-Eco^{Flexx} (Figure 1).

3. Description of Variant 2 provisionally approved on 24/05/18 approved on 09/10/19

A Bizerba WM-CWL series model CWL-I (Figure 2) which is similar to the pattern and variant 1 but built with stainless steel construction.

4. Description of Variant 3 approved on 09/10/19

The pattern and variants 1 to 2 with different software as listed in Table 2.

Table 2

	Software version	Software -ID
WM data processing board/module	ECn.08.xx (*)	sid.2F51
Terminal unit	emn.02.xx (*)	sid01.9254 or sid02.b49b

(*) where 'xx' refers to the identification of non-legally relevant software.

5. Description of Variant 4 approved on 09/10/19

Certain other instruments which are similar to the pattern and variants 1 to 3 but fitted with a Bizerba model iS30 terminal/indicator (Figure 3b).

6. Description of Variant 5 approved on 09/10/19

Certain other instruments which are similar to the pattern and variants 1 to 4 but fitted with a Bizerba model WM-Display unit (Figure 3c) and a Bizerba model WM data processing module (Figure 3d).

6.1. Software

The software for WM data processing module is designated in Tables 1 and 2.

The steps for accessing the software versions are as follows:

- Press and hold the →0← key for at least 2 seconds.
- The 'bootlog' which stores software version number, software ID, checksum and other information will be automatically scrolled in the display.

- Press and hold the →0← key for at least 2 seconds to exit.

6.2. Sealing Provision

Provision is made for the configuration and calibration to be sealed by inserting and securing the safety clamp in the terminal block which is covered with a terminal seal cover, and placing a destructible adhesive label over the securing screw on the seal cover (Figure 4c).

7. Description of Variant 6 approved on 09/10/19

Instruments are similar to the pattern and variants 1 to 5 but having different specifications with conveyor lengths up to 3000 mm and widths up to 1200 mm, as listed in Table 3.

Table 3

Maximum capacity (kg)	Verification scale interval (g)	Number of verification scale intervals	Terminal/Indicator model	Flintec Load cell
≤ 15	≥ 5	≤ 3000	iS50 or iS30 or WM-display & WM module	SB6 C3 or C4, 50 kg
≤ 16	≥ 5	≤ 3200		SB6 C4, 50 kg
≤ 30	≥ 10	≤ 3000		SB6 C3 or C4, 100 kg
≤ 32	≥ 10	≤ 3200		SB6 C4, 100 kg
≤ 60	≥ 20	≤ 3000		SB6 C3 or C4, 100 kg or 200 kg
≤ 120(*)	≥ 50	≤ 2400		SB14 C3, 227 kg

(*) Instruments have a maximum belt speed of up to 2 m/s.

8. Description of Variant 7 approved on 09/10/19

A Bizerba WM-CWL series model CWL-H which is similar to variant 2 but built with waterproof construction.

9. Description of Variant 8 approved on 11/04/22

The pattern and variants as a postal weighing instrument, the minimum capacity is reduced to 5 verification scale intervals, and are marked ‘For Postal Use Only’ or similar.

10. Description of Variant 9 approved on 06/06/24

Load receptors of the pattern or variants may be installed in a tilted position of up to 5 ° as shown in Figure 6.

TEST PROCEDURE No 6/14G/30

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

Ensure that instruments are only being used within the special temperature limits stated elsewhere in this Technical Schedule.

FIGURE 6/14G/30 – 1

Bizerba Model CWL-L Automatic Catchweighing Instrument (Pattern and Variant 1)

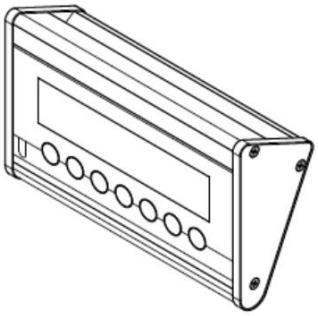
FIGURE 6/14G/30 – 2

Bizerba Model CWL-I Automatic Catchweighing Instrument (Variant 2)

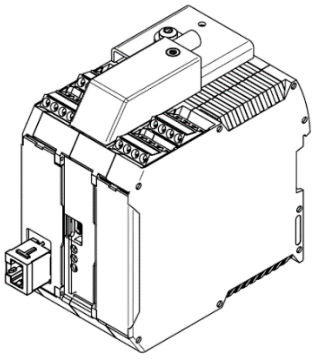
FIGURE 6/14G/30 – 3

(a) Bizerba Model iS50 Terminal/Indicator

(b) Bizerba Model iS30 Terminal/Indicator

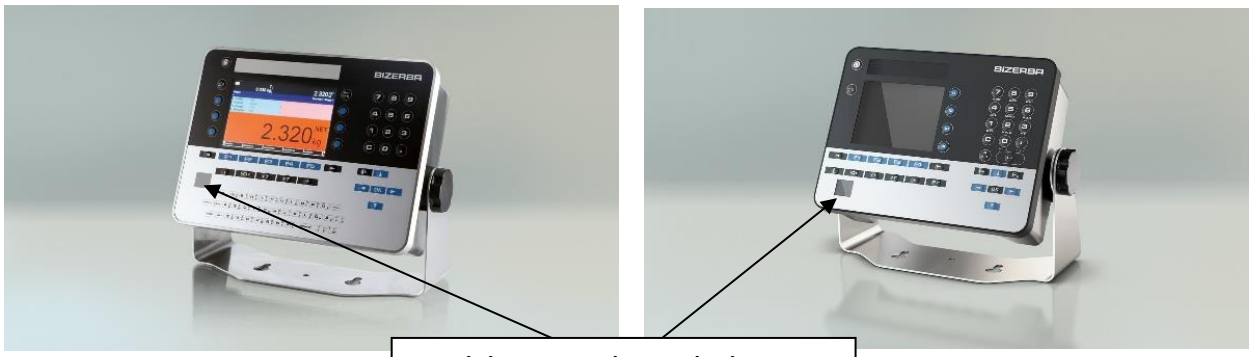


(c) Bizerba Model WM-Display

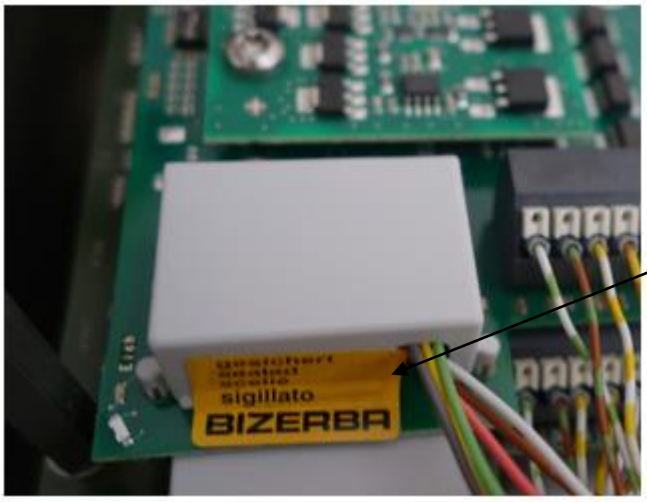


(d) Bizerba Model WM Data Processing Module

FIGURE 6/14G/30 – 4



(a) Inspection Windows



(b) Seal of WM board within iS30 or iS50 indicator

(c) Seal of WM module

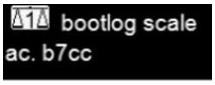
Typical Sealing Method

FIGURE 6/14G/30 – 5

1) Dialog ‘bootlog scale’

Software version for WM board/module

Software ID of WM board/module



Measuring card ID of WM board/module

2) Dialog ‘bootlog terminal’

Software version for iS30 and iS50 terminals

Software ID of iS30 and iS50 terminals

Software ID of iS30 and iS50 terminals

Example of Software Version and Identification

FIGURE 6/14G/30 – 6

Bizerba Model CWL-I Automatic Catchweighing Instrument Load Receptor in Tilted Position (Variant 9)

~ End of Document ~