



Australian Government
National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Cancellation

Certificate of Approval No 6/4D/279

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

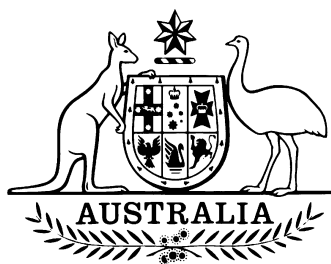
Ishida Model AC-3000 Weighing Instrument

submitted by Ishida Co. Ltd
 c/o Heat and Control Pty Ltd
 407 Creek Road
 Mt Gravatt QLD 4122

has been cancelled in respect of new instruments as from 1 December 2010.

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.



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Certificate of Approval

No 6/4D/279

Issued under Regulation 63
of the
National Measurement Regulations 1999

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

Ishida Model AC-3000 Weighing Instrument



submitted by Ishida Co. Ltd
c/o **PCC Systems**
407 Creek Road
Mt Gravatt QLD 4122.

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 Certificate is issued upon completion of a review of NSC approval No 6/4D/279.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 August 2005, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/279 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 Commission 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 the Commission's Document 106.

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

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

DESCRIPTIVE ADVICE

Pattern: approved 31 July 1995 – re-approved 16 October 2000

- An Ishida model AC-3000 multi-interval self-indicating price-computing weighing instrument of 15 kg maximum capacity.

Variant: re-approved 16 October 2000

1. Model AC-3000E and model BC-3000 weighing instruments.
2. Model DP-3000 weighing instrument.
3. Model WPL-3000 weighing instrument.
4. Model WM-3001 weighing instrument.
5. Model WPL-3000 single-interval weighing instrument.

Technical Schedule No 6/4D/279 describes the pattern and variants 1 to 5.

FILING ADVICE

All documentation for this approval including Certificate of Approval No 6/4D/279 dated 30 April 1999, all Technical Schedules including Variations Nos 1 to 4, and Figures 1 to 4, are all superseded by this Certificate, Technical Schedule and Figures 1 to 4, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4D/279 dated 20 October 2000
Technical Schedule No 6/4D/279 dated 20 October 2000 (incl. Test Procedure)
Figures 1 to 4 dated 20 October 2000

Signed by a person authorised under Regulation 63 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



TECHNICAL SCHEDULE No 6/4D/279

Pattern: Ishida Model AC-3000 Weighing Instrument.

Submittor: Ishida Co. Ltd
407 Creek Road
Mt Gravatt QLD 4122.

1. Description of Pattern

An Ishida model AC-3000 self-indicating multi-interval price-computing weighing instrument (Figure 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 the maximum capacity of 15 kg. Instruments have unit price to \$9999.99/kg, price to \$99999.99, a price-look-up (PLU) facility, and may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

Instruments have an alphanumeric display, a front-loading cassette for label or receipt printer, and may also be fitted with an integral label printer.

Instruments are approved for use over a temperature range of -5°C to $+40^{\circ}\text{C}$ and must be so marked.

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e_1$ whenever power is applied and whenever the instrument comes to rest within $0.5e_1$ of zero.

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

1.2 Tare

A semi-automatic and/or a pre-set subtractive taring device, each of up to 5.998 kg capacity may be fitted.

1.3 Networking

A number of instruments may be connected in a network to share common PLU data, and to accumulate and retrieve management information.

In addition, the network may be interfaced with a computer for the collection of management data, or 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 reverification of any other weighing instrument in the network.

1.4 Display Check

A display check is initiated when the ZERO button is pressed.

1.5 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.

1.6 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

1.7 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of the sealing screws provided in two positions, on the underside of the instrument and under the load receptor.

1.8 Markings

Instruments carry the following markings, in the form shown at right:

| | |
|--|-----------------------|
| Manufacturer's mark, or name written in full | Ishida Co. Ltd, Japan |
| Mark or name of manufacturer's agent | PCC Systems |
| Indication of accuracy class | Ⓜ |
| Pattern approval mark for the instrument | NSC No 6/4D/279 |
| Low range | |
| Maximum capacity | Max kg * |
| Verification scale interval | e = kg * |
| High range | |
| Maximum capacity | Max kg * |
| Verification scale interval | e = kg * |
| Minimum capacity | Min kg * |
| Tare capacity | T = - kg |
| Serial number of the instrument | |
| Special temperature limits | -5°C to +40°C |

- * These markings shall also be shown near the display of the result if they are not already located there.

2. Description of Variants

2.1 Variant 1

Certain other models as listed below:

- Model AC-3000E which is similar to the pattern including networking facility but without the pre-set tare device and the alphanumeric display.
- Model BC-3000 which is similar to the model AC-3000E but the networking facility may or may not be provided.

2.2 Variant 2

An Ishida model DP-3000 multi-interval price-computing weighing instrument (Figure 2) 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 have unit price to \$9999.99/kg, price to \$99999.99, a price-look-up (PLU) facility, and may be fitted with output sockets for the connection of peripheral and/or auxiliary devices. Instruments have an alphanumeric display and are fitted with a remote label printer.

A number of instruments may be connected in a network.

2.2.1 Tare

A semi-automatic and/or a pre-set subtractive taring device of up to 5.998 kg maximum capacity may be fitted.

2.2.2 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of destructible labels over two opposite sides of the calibration access cover (NOV-ram switch cover) located under the load receptor.

2.2.3 Markings

In addition to the markings described for the pattern in clause **1.7 Markings** instruments shall be marked NOT TO BE USED FOR DIRECT SALES TO THE PUBLIC, or similar wording.

2.3 Variant 3

An Ishida model WPL-3000 multi-interval price-computing weighing and labelling instrument (Figure 3). The instrument uses a model DP-3000 (variant 2) instrument, with the weighing unit fitted in a conveyor assembly. The item to be weighed is static during weighing.

A number of instruments may be connected in a network.

2.3.1 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of sealing screws and a plate over the access opening located on the weigh platter under the roller platter.

2.4 Variant 4

An Ishida model WM-3001 multi-interval price-computing weighing and labelling instrument (Figure 4) 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 the maximum capacity of 15 kg.

The instrument has the weighing unit fitted in a conveyor assembly and uses a touch screen display/keyboard.

The item to be weighed is static during weighing.

A number of instruments may be connected in a network.



2.4.1 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of a destructible label placed over the calibration access opening, and over the adjacent screw hole, located on the upper case.

2.5 Variant 5

An Ishida model WPL-3000 instrument (variant 3 - Figure 3) as a single-interval price-computing weighing and labelling instrument with a maximum capacity of 15 kg and with a verification scale interval of 0.005 kg.

A number of instruments may be connected in a network.

TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Inspector's Handbook.

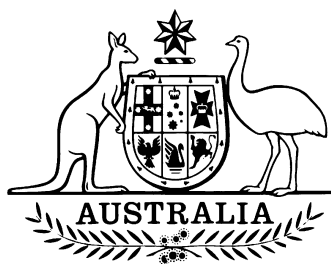
Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads, m , expressed in verification scale intervals, e , are:

- $\pm 0.5 e$ for loads $0 \leq m \leq 500$;
- $\pm 1.0 e$ for loads $500 < m \leq 2\,000$; and
- $\pm 1.5 e$ for loads $2\,000 < m \leq 10\,000$.

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

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



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Notification of Change

Certificate of Approval No 6/4D/279

Change No 1

The following changes are made to the approval documentation for the

Ishida Model AC-3000 Weighing Instrument

submitted by Ishida Co. Ltd
c/o Heat and Control Pty Ltd
(formerly PCC Systems)
407 Creek Road
Mt Gravatt QLD 4122.

In Technical Schedule No 6/4D/279 dated 20 October 2000;

- A. Clause **2.4 Variant 4** is amended by adding the following after the 4th paragraph:
“The model WM-3005 single interval instrument is similar to the model WM-3001 but requires manual label application. Model WM-3005 instruments have a maximum capacity of 6 kg and a verification scale interval of 0.002 kg.”
- B. All references to the submittor should be amended to read:
“Ishida Co. Ltd
c/o Heat and Control Pty Ltd”

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



Australian Government
**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Notification of Change
Certificate of Approval No 6/4D/279
Change No 2

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

The following change is made to the approval documentation for the

Ishida Model AC-3000 Weighing Instrument

submitted by Ishida Co. Ltd
 c/o Heat and Control Pty Ltd
 407 Creek Road
 Mt Gravatt QLD 4122.

In Certificate of Approval No 6/4D/279 dated 20 October 2000, the Condition of Approval referring to the review of the approval should be amended to read:

“This approval becomes subject to review on 1 August 2010, and then every 5 years thereafter.”

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.', is written over a large, faint circular watermark that contains the word 'AUSTRALIA'.



Australian Government
National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 6/4D/279
Change No 3

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

The following changes are made to the approval documentation for the
Ishida Model AC-3000 Weighing Instrument

submitted by Ishida Co. Ltd
 c/o Heat and Control Pty Ltd
 407 Creek Road
 Mt Gravatt QLD 4122.

- A. In Certificate of Approval No 6/4D/279 dated 20 October 2000, the
FILING ADVICE should be amended by adding the following:
 “Notification of Change No 1 dated 31 October 2002
 Notification of Change No 2 dated 25 January 2006
 Notification of Change No 3 dated 25 August 2008”
- B. In Technical Schedule No 6/4D/279 dated 20 October 2000, clause
1.1 Zero should be amended by adding the following paragraph:
 “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.”

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.', is located in the bottom right corner of the document.

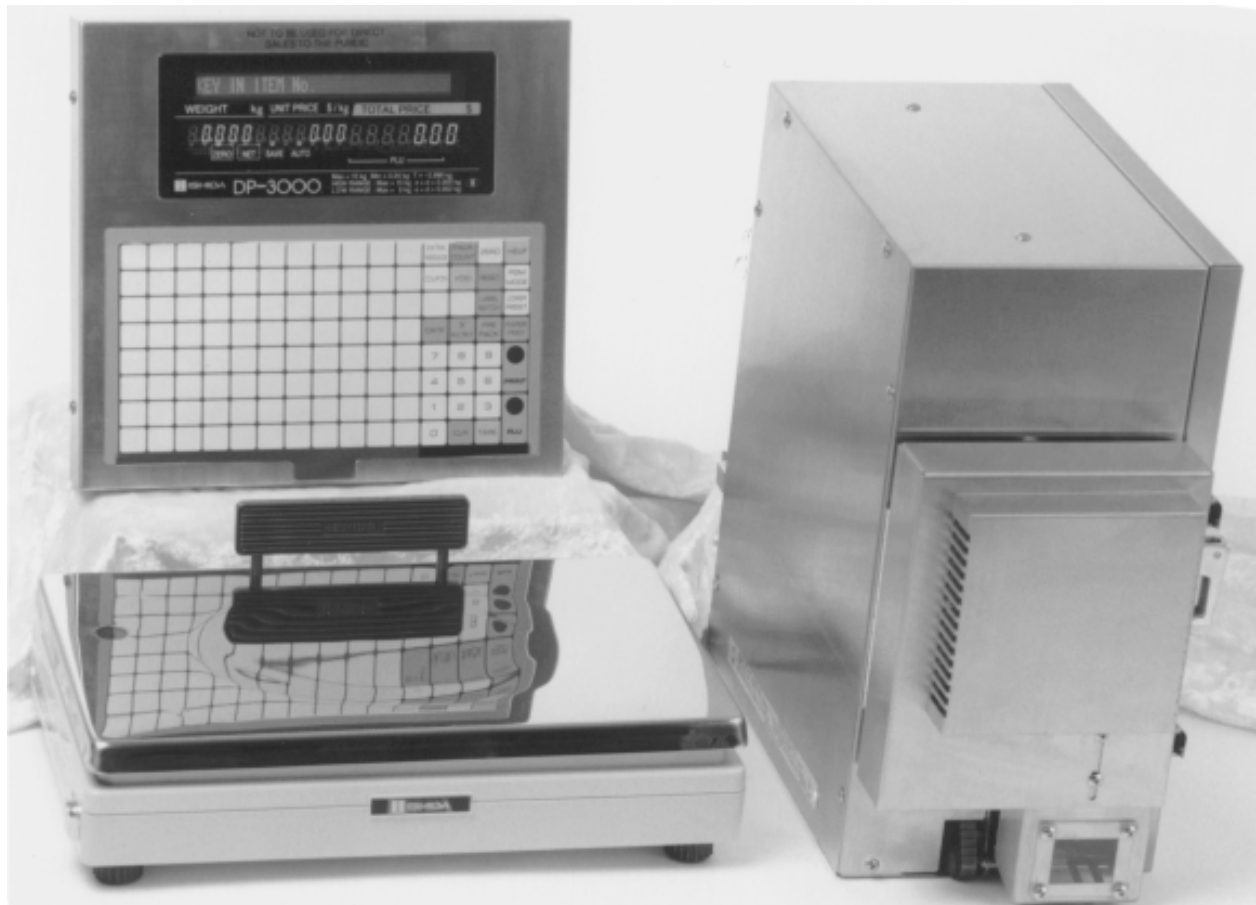
FIGURE 6/4D/279 - 1



Ishida Model AC-3000 Weighing Instrument

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FIGURE 6/4D/279 - 2



Ishida Model DP-3000 Weighing Instrument

FIGURE 6/4D/279 - 3



Ishida Model WPL-3000 Weighing Instrument

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20 October 2000

FIGURE 6/4D/279 - 4



Ishida Model WM-3001 Weighing and Labelling Instrument