



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Withdrawal
Interim
Provisional Certificate of Approval No P13/2/7

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 Measure Boy MB II-900 Automatic Catchweighing and
Dimensional Measuring Instrument

submitted by Heat and Control Pty Ltd
407 Creek Road
Mt Gravatt QLD 4122

has been withdrawn as from 1 December 2007.

The approval was granted by means of the Interim Provisional Certificate
No P13/2/7 issued 20 February 2007 only; no final Certificate was ever
issued.

**Any instrument purporting to comply with approval NMI P13/2/7 must
now be removed from use for trade.**

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. H. T.', is located in the bottom right corner of the document.



Australian Government

**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

**Interim
Provisional Certificate of Approval
No P13/2/7**

**VALID FOR VERIFICATION/CERTIFICATION PURPOSES UNTIL
20 MAY 2007**

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

Ishida Model Measure Boy MB II-900 Automatic Catchweighing and Dimensional Measuring Instrument

submitted by Heat and Control Pty Ltd
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 approval has been granted with reference to document NMI R 51, *Automatic Catchweighing Instruments 2*, and document NMI R 129, *Multi-dimensional Measuring Instruments*, both dated July 2004.

CONDITIONS OF APPROVAL

It is the responsibility of the submitter to make special arrangements with the respective state or territorial trade measurement department (if required by that department) to have instruments covered by this Interim Certificate verified/certified pending issue of the final Certificate and Technical Schedule.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI P13/2/7' and only by persons authorised by the submitter.

The National Measurement Institute 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.

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

Special:

Instruments are only approved for use for determination of the dimensions of opaque objects and for the calculation of volume of the item, for the purposes of determining freight or postal charges.

The dimensions determined may also be used for the calculation (by peripheral equipment) of a volume and/or 'dimensional weight' (*) value of the object, also for the purposes of determining freight or postal charges.

(*) A 'dimensional weight' value is a calculated value deemed to be a weight value obtained by applying a conversion factor to the object's volume as calculated from the measured dimensions.

Special: For the provisional approval

This approval is limited to five (5) instruments.

The submitter shall advise NMI in writing of the proposed location of each instrument prior to it being initially verified/certified.

Instruments shall not be initially verified/certified until the person intending to carry out the verification/certification has been advised in writing by NMI of the location of the instrument.

DESCRIPTIVE ADVICE

Pattern: approved 20 February 2007

- An Ishida model Measure Boy MB II-900 automatic catchweighing and dimensional measuring instrument which is approved for use to weigh and to measure the linear dimensions of certain objects while in motion.

Instruments may also be known as Shinko Denshi instruments of the same model.

Instruments are approved for use over a temperature range of 0°C to +40°C and must be so marked.

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

The pattern is approved for use as a class Y(b) automatic catchweighing instrument with a maximum capacity of 50 kg and with a verification scale interval (e) of 0.1 kg. The pattern is approved for use for the determination of the linear dimensions of opaque rectangular box-shaped objects having maximum dimensions (i.e. length × width × height) of 150 × 90 × 90 cm and minimum dimensions of 20 × 10 × 10 cm, with a scale interval (d) of 1 cm. The maximum conveyor speed is 156 m/min and the minimum conveyor speed is 50 m/min.

The pattern comprises:

- (a) An Ishida weighing unit which contains two adjacent weighing modules each of which comprises a motor driven belt conveyor-type load receptor which is supported by two sensor units (one on each side of the module, and each containing a force reduction mechanism and an HBM model PW2GC3 load cell of 18 kg maximum capacity). The belt width is 900 mm.
- (b) An Ishida dimensioning frame which is approved for use in measuring the linear dimensions of opaque rectangular box-shaped objects (rectangular parallelepiped #) only.
 - (#) A rectangular box (rectangular parallelepiped) is a polyhedron having six faces that are parallel in pairs; each face is a parallelogram and adjacent edges are perpendicular.

The dimensions determined may also be used for the calculation of volume and/or 'dimensional weight' value (*) of the item (refer to the Special Conditions of Approval).

- (*) A 'dimensional weight' value is a calculated value deemed to be a weight value obtained by applying a conversion factor to the object's volume as calculated from the measured dimensions.
- (c) A control/indication unit which is used to set the mode of operation of the instrument and which determines and displays a weight value from signals provided by the weighing modules within the weighing unit (either individually or in combination). The indicator displays the static weight in kg, and the length, width and height in cm.
- (d) In-feed and out-feed conveyors are provided at each end of the weighing unit.

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



Date of Approval: 20 February 2007