

National Standards Commission



Certificate of Approval

No 6/4D/263

Issued under Regulation 9
of the
National Measurement (Patterns of Instruments) Regulations

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

Ishida Model Libra II Weighing Instrument

submitted by Ishida Co. Ltd
44 Sanno-cho, Shogoin
Sakyo-ku Kyoto JAPAN.

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.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1 April 1996.
This approval expires in respect of new instruments on 1 April 1997.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/263 and 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 drawings and specifications 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.

DESCRIPTIVE ADVICE

Pattern: approved 25 March 1991

- An Ishida model Libra II dual-interval self-indicating price-computing weighing instrument of 15 kg maximum capacity.

Technical Schedule No 6/4D/263 describes the pattern.

Variants: approved 11 September 1995

1. With an Ishida model CLC-25N load cell.

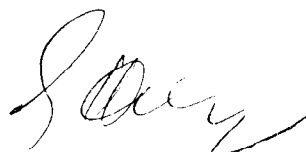
Technical Schedule No 6/4D/263 Variation No 1 describes variant 1.

FILING ADVICE

Certificate of Approval No 6/4D/263 dated 31 July 1991 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises.

Certificate of Approval No 6/4D/263 dated 25 October 1995
Technical Schedule No 6/4D/263 dated 31 July 1991 (incl. Test
Procedure)
Technical Schedule No 6/4D/263 Variation No 1 dated 25 October 1995
Figure 1 dated 31 July 1991

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.





National Standards Commission

TECHNICAL SCHEDULE No 6/4D/263

Pattern: Ishida Model Libra II Weighing Instrument.

Submittor: Ishida Scales Mfg Co. Ltd
44 Sanno-cho, Shogoin
Sakyo-ku Kyoto JAPAN.

1. Description of Pattern

An Ishida model Libra II dual-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 the maximum capacity of 15 kg. Instruments have unit price to \$999.99/kg, price to \$9999.99, a price-look-up (PLU) facility, and may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

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 instrument has an initial zero-setting device with a nominal range of 3.2% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic subtractive taring device of up to 3 kg capacity may be fitted.

1.3 Display Check

A display check is initiated when the 'SC' button is pressed.

1.4 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.

1.5 Verification/Certification Provision

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

1.6 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4D/263
Accuracy class	III
Low range	
Maximum capacity	Max kg *
Verification scale interval	e = d = kg *
High range	
Maximum capacity	Max kg *
Verification scale interval	e = d = kg *
Minimum capacity	Min kg *
Maximum subtractive tare	T = - kg

* Repeated adjacent to each reading face.

TEST PROCEDURE

Instruments should be tested in conjunction 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, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within $\pm 0.25e$ at no load, are:

- $\pm 0.5e$ for loads from 0 to $500e$;
- $\pm 1.0e$ for loads over $500e$ up to $2\ 000e$; and
- $\pm 1.5e$ for loads over $2\ 000e$.



National Standards Commission

TECHNICAL SCHEDULE No 6/4D/263

VARIATION No 1

Pattern: Ishida Model Libra II Weighing Instrument.

Submitter: Ishida Co. Ltd
44 Sanno-cho, Shogoin
Sakyo-ku Kyoto JAPAN.

1. Description of Variant 1

An Ishida model Libra II weighing instrument now fitted with an Ishida model CLC-25N load cell.

NOTIFICATION OF CHANGE

In Technical Schedule No 6/4D/263 dated 31 July 1991, clause 1. **Description of Pattern**, should be mended by adding the following paragraph:

'Instruments are fitted with an Ishida model CLC-25L load cell.'

National Standards Commission



NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/263

CHANGE No 1

The following change is made to the approval documentation for the

Ishida Model Libra II Weighing Instrument

submitted by Ishida Co. Ltd
44 Sanno-cho, Shogoin
Sakyo-ku Kyoto JAPAN.

In Technical Schedule No 6/4D/263 dated 31 July 1991, the following clause should be added:

1.7 Management Function

Instruments may be fitted with a coin counting management function which is not approved for trade use.

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to read 'J. Birch'. The signature is written in a cursive style with a large initial 'J'.

National Standards Commission



NOTIFICATION OF CHANGE

VARIOUS CERTIFICATES OF APPROVAL

The following change is made to the approval documentation for various approvals

submitted by Ishida Scales Mfg Co. Ltd
44 Sanno-cho, Shogoin
Sakyo-ku Kyoto JAPAN.

In the Certificates and Technical Schedules for the approvals listed below, the name of the submitter should be changed to read;

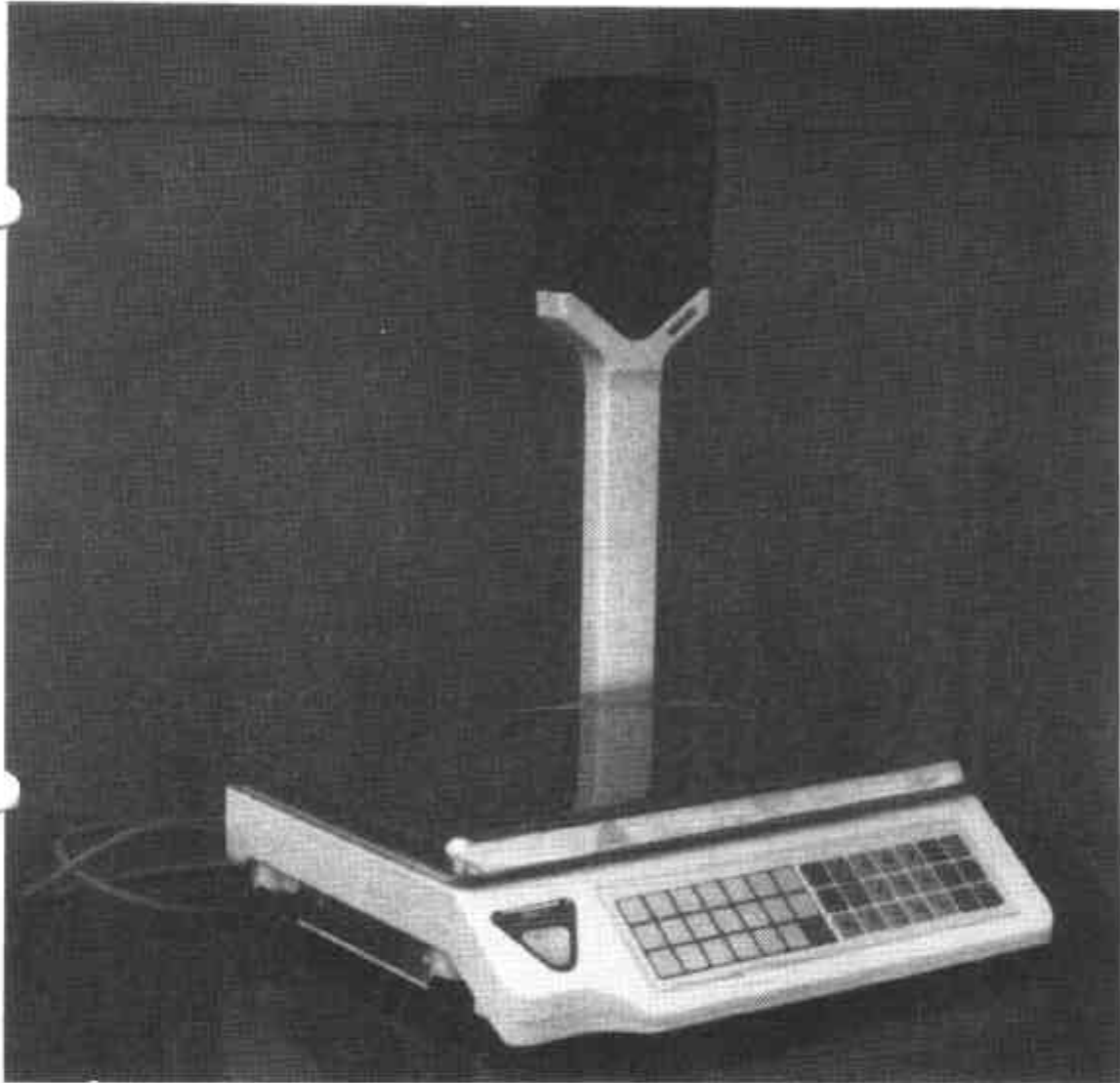
"Ishida Co. Ltd" (the address remains unchanged)

NOTE: Only 'current' approvals are listed; not those that have expired or have been cancelled.

APPROVAL NUMBER	PATTERN
6/4C/62	MT-30W Weighing Instrument
6/4C/73	WL-600SS Weighing Instrument
6/4C/78	VEGA Weighing Instrument
6/4C/79	MG-3000 Weighing Instrument
6/4D/228	MS-5060SP Weighing Instrument
6/4D/250	Nova 150 Weighing Instrument
6/4D/262	Libra-150 Weighing Instrument
6/4D/263	Libra II Weighing Instrument
6/4D/264	AC-2000 Weighing Instrument
6/4D/265	IP-21EX Weighing Instrument
6/9C/227	MT-150W Weighing Instrument
S281	MTC-20 Digital Indicator

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

FIGURE 6/4D/263 - 1



Ishida Model Libra II Weighing Instrument