



National Standards Commission

Notification of Change

Certificate of Approval No 6/4D/265

Change No 1

The following change is made to the approval documentation for the

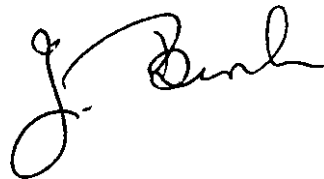
Ishida Model IP-21EX Weighing Instrument

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

In Certificate of Approval No 6/4D/265 dated 31 January 1995, the Condition of Approval referring to the expiry of the approval should be amended to read:

“This approval expires in respect of new instruments on 1 November 1999.”

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.



National Standards Commission



Certificate of Approval

No 6/4D/265

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

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

Ishida Model IP-21EX 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 November 1997.
This approval expires in respect of new instruments on 1 November 1998.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/265 and only by persons authorised by the submitter.

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.

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 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.

DESCRIPTIVE ADVICE

Pattern: approved 19 October 1992

- An Ishida model IP-21EX multi-interval self-indicating price-computing weighing and label printing instrument with a maximum capacity of 15 kg.

Variant: approved 19 October 1992

1. In an alternative housing and known as a model Wmini-Mark II.

Technical Schedule No 6/4D/265 describes the pattern and variant 1.

Variants: approved 9 November 1994

2. A model IP-21EX-M instrument.
3. A model Wmini Mark II-MEAS instrument.

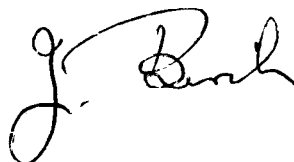
Technical Schedule No 6/4D/265 Variation No 1 describes variants 2 and 3.

FILING ADVICE

Certificate of Approval No 6/4D/265 dated 7 December 1992 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4D/265 dated 31 January 1995
Technical Schedule No 6/4D/265 dated 7 December 1992 (incl. Test Procedure)
Technical Schedule No 6/4D/265 Variation No 1 dated 31 January 1995
Figures 1 and 2 dated 7 December 1992

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.





National Standards Commission

TECHNICAL SCHEDULE No 6/4D/265

Pattern: Ishida Model IP-21EX Weighing Instrument.

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

1. Description of Pattern

An Ishida model IP-21EX multi-interval self-indicating price-computing weighing and label printing 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 \$999.99/kg, price to \$999.99, 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 $\pm 8\%$ of the maximum capacity of the instrument.

1.2 Tare

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

1.3 Display Check

A display check is initiated whenever power is applied or when the RESET button is pressed.

1.4 Levelling

The weighing component of 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/265
Accuracy class	III
Maximum capacity	Max / g *
Minimum capacity	Min g *
Verification scale interval	e = / g *
Maximum subtractive tare	T = - g

* Repeated adjacent to each reading face.

2. Description of Variant 1

In an alternative housing and known as a model Wmini-Mark II (Figure 2).

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 $2000e$; and
- $\pm 1.5e$ for loads over $2000e$.

For multi-interval instruments with verification scale intervals of e_1, e_2, \dots , apply e_1 for zero adjustment and for maximum permissible errors apply e_1, e_2, \dots , as applicable for the load.



National Standards Commission

TECHNICAL SCHEDULE No 6/4D/265

VARIATION No 1

Pattern: Ishida Model IP-21EX Weighing Instrument.

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

1. Description of Variants

1.1 Variant 2

An Ishida model IP-21EX-M multi-interval self-indicating price-computing weighing and label printing instrument which is similar to the pattern (Figure 1), but with an alternative keyboard and with the printer remote rather than integral with the computing unit.

1.2 Variant 3

An Ishida model Wmini Mark II-MEAS multi-interval self-indicating price-computing weighing and label printing instrument which is similar to variant 1 as shown in Figure 2, but with an alternative keyboard.

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.

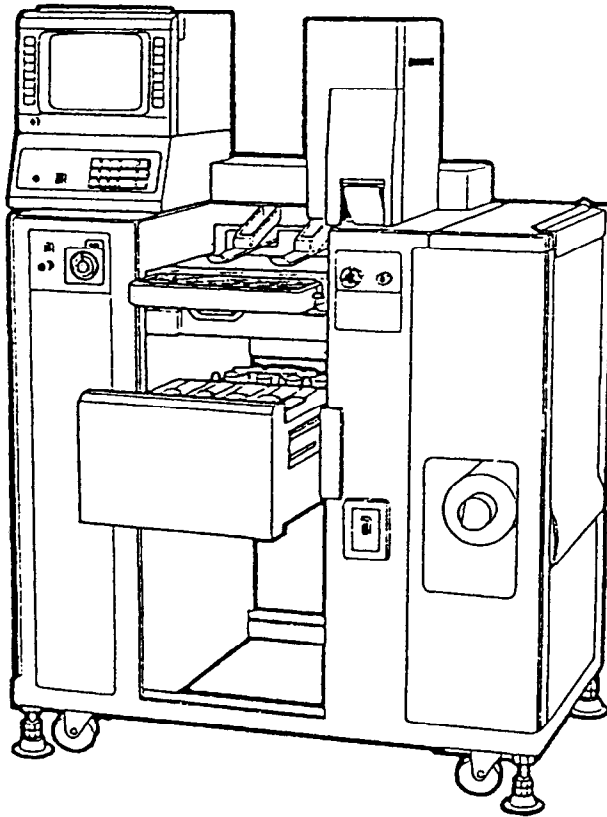
FIGURE 6/4D/265 - 1



Ishida Model IP-21EX Weighing Instrument

6/4D/265
7/12/92

FIGURE 6/4D/265 - 2



Model Wmini-Mark II