

# National Standards Commission



## Certificate of Approval

**No 6/9C/227**

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 MT-150W Weighing Instrument

submitted by Ishida Scales Mfg. Co. Ltd  
(formerly submitted by Heat & Control Pty Ltd)  
44 Sanno-cho, Shogoin  
Sakyo-ku Kyoto JAPAN.

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.

### CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/6/94.

This approval expires in respect of new instruments on 1/6/95.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/227 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 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.

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

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

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

### DESCRIPTIVE ADVICE

**Pattern:** approved 17/5/89

- An Ishida model MT-150W self-indicating weighing instrument of 150 kg maximum capacity.

**Variant:** approved 17/5/89

1. Of 60 kg maximum capacity.

Technical Schedule No 6/9C/227 describes the pattern and variant 1.

**Variant:** approved 2/3/90

2. Of 30 kg maximum capacity.

Technical Schedule No 6/9C/227 Variation No 1 describes variant 2.

**Variant:** approved 30/7/91

3. Model MT-150.

Technical Schedule No 6/9C/227 Variation No 2 describes variant 3.

#### FILING ADVICE

Certificate of Approval No 6/9C/227 dated 27/4/90 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/9C/227 dated 9/9/91  
Technical Schedule No 6/9C/227 dated 14/11/89  
Technical Schedule No 6/9C/227 Variation No 1 dated 27/4/90  
Technical Schedule No 6/9C/227 Variation No 2 dated 9/9/91  
Test Procedure No 6/9C/227 dated 14/11/89  
Figure 1 dated 14/11/89



# National Standards Commission

## TECHNICAL SCHEDULE No 6/9C/227

Pattern: Ishida Model MT-150W Weighing Instrument.

Submittor: Heat & Control Pty Ltd  
Unit N, 16 South Street  
Rydalmere NSW 2116.

### 1. Description of Pattern

— An Ishida model MT-150W self-indicating weighing instrument of 150 kg maximum capacity with a verification scale interval of 0.05 kg (Figure 1).

The indicator, which may be remote from the basework, may be fitted with an output socket for the connection of a peripheral or an auxiliary device.

#### 1.1 Zero

Zero is automatically corrected to within  $\pm 0.25e$  whenever the instrument comes to rest within  $0.5e$  of zero. If the instrument comes to rest outside that range but within the zero reset range, zero is reset by use of the zero button.

The initial zero-setting device has a nominal range of 33% of maximum capacity.

#### 1.2 Display Check

A display check is initiated whenever the instrument is switched on.

#### 1.3 Tare

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

#### 1.4 Basework

The basework has an Ishida model LLC-300 load cell of 300 kg capacity mounted directly between the main frame and the weighing platform frame. The load receptor is nominally 400 mm x 550 mm.

#### 1.5 Set Point

The instrument may be fitted with a set point facility, accessible via the keyboard.

#### 1.6 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.

1.7 Markings

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

Manufacturer's name or mark  
Serial number  
NSC approval number  
Accuracy class  
Maximum capacity  
Minimum capacity  
Verification scale interval  
Maximum subtractive tare

NSC No 6/9C/227

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Max ... kg \*

Min ... kg \*

e = d = ... kg \*

T = - ... kg

\* Repeated adjacent to each reading face.

1.8 Verification Provision

Provision is made for a verification mark to be applied.

2. Description of Variant 1

Of 60 kg maximum capacity with a verification scale interval of 0.02 kg, and with a maximum tare capacity of 59.98 kg.

TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Inspector's Handbook. The results should not exceed the maximum permissible errors specified in Document 118, 2nd Edition, October 1986.



# National Standards Commission

## TECHNICAL SCHEDULE No 6/9C/227

### VARIATION No 1

**Pattern:** Ishida Model MT – 150W Weighing Instrument.

**Submittor:** Heat & Control Pty Ltd  
(Greer Division)  
Unit N, 16 South Street  
Rydalmere NSW 2116.

#### 1. Description of Variant 2

Of 30 kg maximum capacity with a verification scale interval of 0.01 kg, and with a maximum tare capacity of 29.99 kg.



## National Standards Commission

TECHNICAL SCHEDULE No 6/9C/227

VARIATION No 2

**Pattern:** Ishida Model MT-150W Weighing Instrument.

**Submittor:** Ishida Scales Mfg. Co. Ltd  
(formerly submitted by Heat & Control Pty Ltd)  
44 Sanno-cho, Shogoin  
Sakyo-ku Kyoto JAPAN.

### 1. Description of Variant 3

With the indicator in an alternative housing, in which case the instrument is known as a model MT-150.

# National Standards Commission



## NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/9C/227

CHANGE No 1

The following change is made to the approval documentation for the

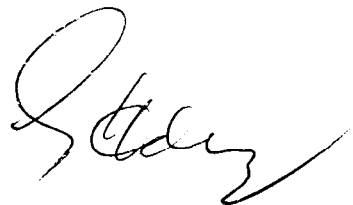
Ishida Model MT-150W Weighing Instrument

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

In Certificate of Approval No 6/9C/227 dated 9 September 1991, the Condition of Approval referring to the expiry of the approval should be amended to now read:

"This approval expires in respect of new instruments on 1 June 1996."

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



## NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/9C/227

CHANGE No 2

The following change is made to the approval documentation for the

Ishida Model MT-150W Weighing Instrument

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

In Certificate of Approval No 6/9C/227 dated 9 September 1991, the Condition of Approval referring to the expiry of the approval should be amended to now read as shown below:

"This approval expires in respect of new instruments on 1 January 1997."

NOTE: This was previously amended by Notification of Change No 1 dated 27 October 1995.

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



## 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)

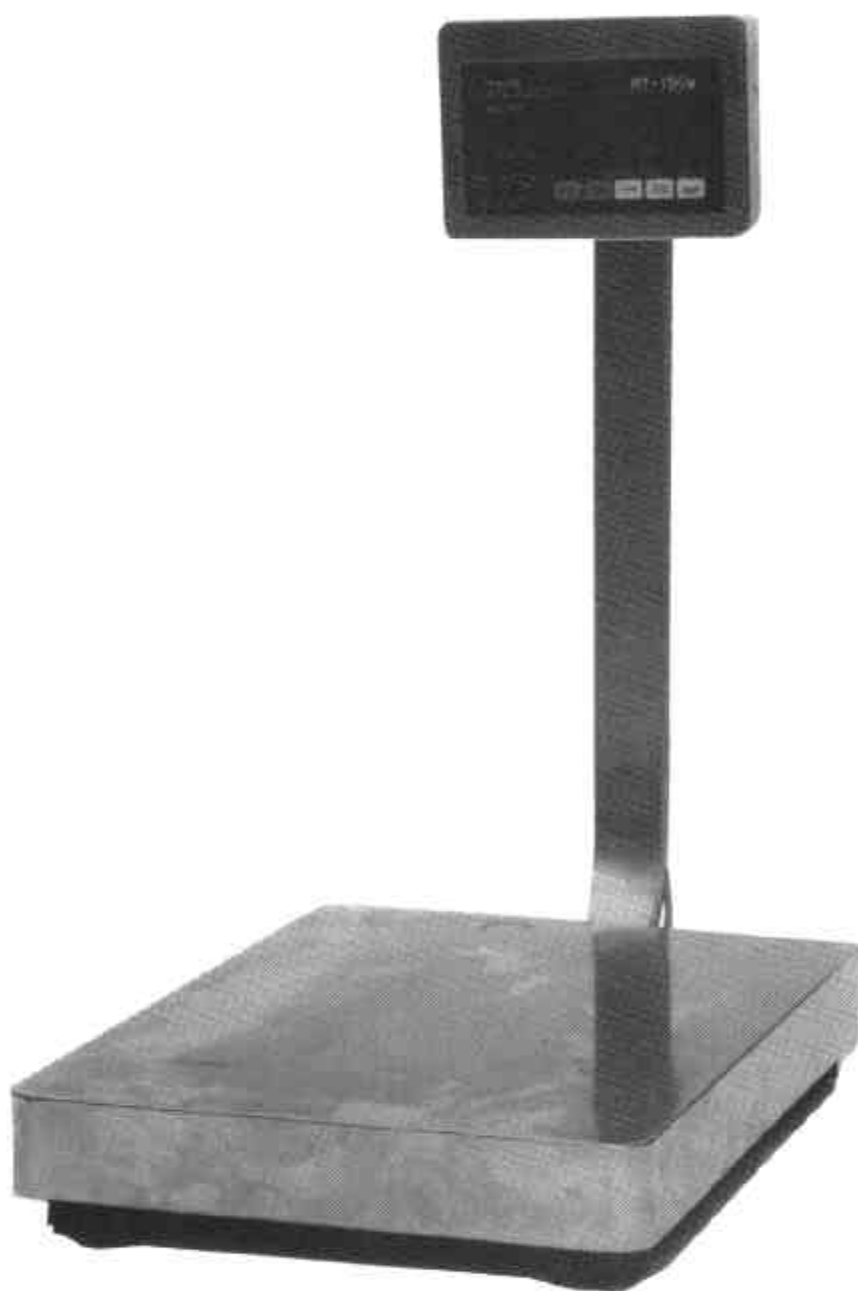
NOTE: Only 'current' approvals are listed; not those that have expired or have been cancelled.

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.

6/9C/227  
14/11/89

Figure 6/9C/227 - 1



Ishido Model MT-150W