

# National Standards Commission



## Certificate of Approval

**No 6/4C/89**

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

Measurement Systems International Model MSI-6000 Weighing Instrument

submitted by W W Wedderburn Pty Ltd  
90 Parramatta Road  
Summer Hill NSW 2130.

**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 2000.  
This approval expires in respect of new instruments on 1 April 2001.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/89 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 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.

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

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

#### DESCRIPTIVE ADVICE

Pattern: approved 29 March 1995

- A Measurement Systems International model MSI-6000 self-indicating weighing instrument with a maximum capacity of 3 kg.

Technical Schedule No 6/4C/89 describes the pattern.

#### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/89 dated 28 July 1995  
Technical Schedule No 6/4C/89 dated 28 July 1995 (incl. Test  
Procedure)  
Figure 1 dated 28 July 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

### TECHNICAL SCHEDULE No 6/4C/89

**Pattern:** Measurement Systems International Model MSI-6000 Weighing Instrument.

**Submitter:** W W Wedderburn Pty Ltd  
90 Parramatta Road  
Summer Hill NSW 2130.

#### 1. Description of Pattern

A Measurement Systems International model MSI-6000 self-indicating weighing instrument (Figure 1) of 3 kg capacity with a verification scale interval of 0.002 kg.

Instruments may be switched to display in grams in which case they shall be marked accordingly. Instruments are battery-operated.

##### 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. If the instrument comes to rest outside that range but within the zero setting range, zero may be set by pressing the zero button.

##### 1.2 Tare

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

##### 1.3 Management Function

Instruments may be fitted with a 'Target Weighing' management function which is not approved for trade use.

##### 1.4 Display Check

A display check is initiated whenever power is applied.

##### 1.5 Levelling

The instrument is provided with adjustable feet and a level indicator.

##### 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 in the indicator to be sealed.

### 1.8 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

NSC No 6/4C/89

III

Max ..... kg \*

Min ..... kg \*

e = ..... 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.

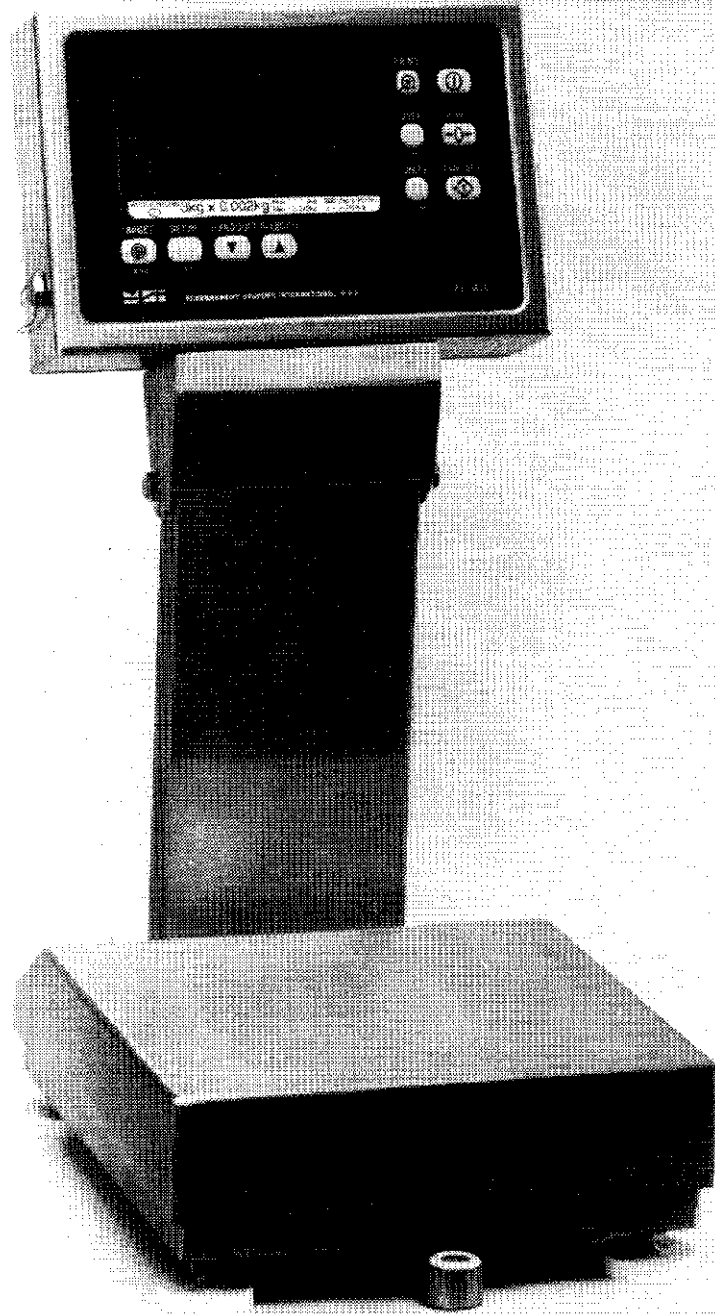
#### Maximum Permissible Errors at Verification/Certification

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  $500e$ ; and

$\pm 1.0e$  for loads over  $500e$ .

FIGURE 6/4C/89 - 1



Measurement Systems International Model MSI-6000 Weighing Instrument