



**NATIONAL STANDARDS COMMISSION**  
**WEIGHTS AND MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS**

**REGULATION 9**

**CERTIFICATE OF APPROVAL No 6/9C/83**

This is to certify that an approval has been granted by the Commission that the pattern and variant of the

Rite-Weigh Model RW1 Platform Weighing Instrument

submitted by Rite-Weigh Scale Service Pty Ltd  
9 Wetherill Street  
Lidcombe, New South Wales, 2141

are suitable for use for trade.

The approval is subject to review on or after 1/4/89.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/83.

The approval may be withdrawn if instruments are used other than as described in the drawings and specifications lodged with the Commission.

**Condition of Approval**

The load cells to be used shall be subject to regular certification by the Commission.

Signed

Executive Director

**Descriptive Advice**

**Pattern:** approved 15/3/84

. Rite-Weigh model RW1 platform weighing instrument of 1500 kg capacity and with up to 1500 scale intervals.

**Variant:** approved 15/3/84

1. In other capacities up to 7500 kg using other Commission-approved load cells as specified in Table 1.

Technical Schedule No 6/9C/83 describes the pattern and variant 1.

**Filing Advice**

The documentation for this approval comprises:

Certificate of Approval No 6/9C/83 dated 10/4/84  
Technical Schedule No 6/9C/83 dated 10/4/84 (including Table 1)  
Test Procedure No 6/9C/83 dated 10/4/84  
Figure 1 dated 10/4/84



# NATIONAL STANDARDS COMMISSION

## TECHNICAL SCHEDULE No 6/9C/83

Pattern: Rite-Weigh Model RW1 Platform Weighing Instrument

Submitter: Rite-Weigh Scale Service Pty Ltd  
9 Wetherill Street  
Lidcombe, New South Wales, 2141.

### 1. Description of Pattern

A platform weighing instrument of up to 1500 kg capacity and with up to 1500 scale intervals.

#### 1.1 Basework

The model RW1 basework (Figure 1) which uses 4 load cells is approved for dormant installations and is set level when installed. The basework is approved for use with up to 3000 scale intervals.

#### 1.2 Load Cells

Four Philips model PR6228/52 500 kg load cells (NSC approval No S162) are used and are approved for use with up to 1500 scale intervals.

#### 1.3 Indicator

The Philips models PR1561 and PR1562 digital indicators are described in Technical Schedule No 6/10B/39 and are approved for use with up to 3000 scale intervals.

#### 1.4 Verification Provision

Provision is made for a verification mark to be applied.

#### 1.5 Markings

Instruments are marked with the following data, in a clearly visible location:

Manufacturer's name or mark	
NSC approval number	NSC No 6/9C/83
Serial number	
Accuracy class	III
Maximum capacity in the form	Max .....kg*
Minimum capacity in the form	Min .....kg*
Verification scale interval in the form	e = d = .....kg*
Load cell serial number(s)	

The following is the minimum data required to be marked on the load cells:

Manufacturer's name or mark  
 Model number  
 Serial number  
 Maximum capacity  
 NSC approval number

### 2. Description of Variant 1

In other capacities up to 7500 kg using suitable Commission-approved load cells as specified in Table 1.

TABLE 1

<u>Maximum Capacity</u>	<u>Load Cell Capacity</u>	<u>Verification Scale Interval</u>
7500 kg	2000 kg	Determined by the number of scale intervals applicable to the basework or load cell.
3500 kg	1000 kg	
1500 kg	500 kg	
500 kg	200 kg	
300 kg	100 kg	

Model GT2145 - Approved Capacities

TEST PROCEDURE No 6/9C/83

All load applications to the instrument should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error as set out in Document 104.

The maximum permissible errors are:

- ±0.5e for loads between 0 and 500e;
- ±1.0e for loads between 501e and 2000e;
- ±1.5 for loads above 2000e.

1. Zero Range

Check that the range of the zero adjustment is not more than 4% of the maximum capacity (± 2% approximately).

2. Zero Test

Check, by means of Document 104, that when the zero light illuminates, zero is set within 0.25e.

3. Range of Indication

- (a) The maximum mass indicated should not exceed the maximum capacity (Max) by more than 10 scale intervals; above this indicated mass the indicator should be blank or show non-numerical symbols.
- (b) Below zero the indicator should display the mass prefixed by a minus sign or be blank.

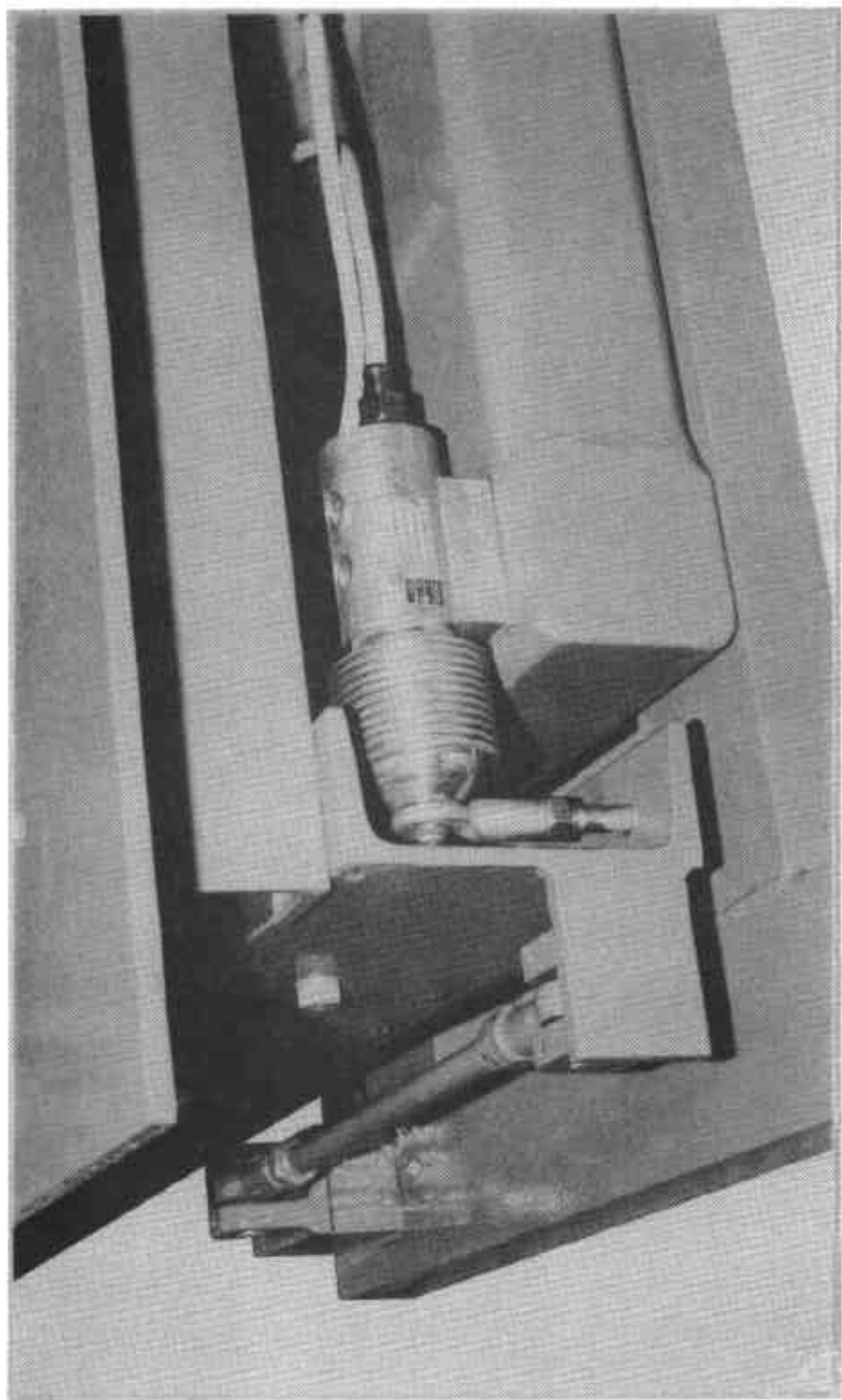
4. Test Loads

Test loads are to be applied to the complete weighing instrument increasing in not less than 5 approximately equal steps to maximum capacity, followed by decreasing loads in not less than 5 approximately equal steps to zero load.

5. Multiple Indicating Systems

Where more than one indicating system is used, the variation between indications or printings for the same load shall not be greater than the absolute value of the maximum permissible error for that load registered on the device with the largest verification scale interval.

FIGURE 6/9C/83 - 1



Rite-Weigh Model RW1 Basework  
Showing Typical Load Cell Mounting