CANCELLED

NATIONAL STANDARDS COMMISSION

WEIGHTS AND MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/9C/80

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

EFM Model AP1212 Platform Weighing Instrument

submitted by Electric Force Measurement
78 River Street
South Yarra, Victoria, 3141

is suitable for use for trade.

The approval is subject to review on or after 1/11/88.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/80.

The approval may be withdrawn if instruments are used other than as described in the drawings and specifications lodged with the Commission.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 in these instruments shall be subject to regular certification by the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 27/9/83

- EFM model AP1212 platform weighing instrument of up to 1000 kg capacity and with up to 1000 scale intervals.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/9C/80 dated 18/10/83
Technical Schedule No 6/9C/80 dated 18/10/83 (including Table 1)
Test Procedure No 6/9C/80 dated 18/10/83
Figures 1 to 3 dated 18/10/83.

18/10/83

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/80

Pattern: EFM Model AP1212 Platform Weighing Instrument

Submittor: Electric Force Measurement
78 River Street
South Yarra, Victoria, 3141.

1. Description of Pattern

A platform weighing instrument of up to 1000 kg capacity and with up to 1000 scale intervals (refer to Table 1).

1.1 Basework

The model AP1212 basework (Figure 1) which uses 4 EFM model SB375 275 kg load cells (Figure 2) is approved in two configurations:

(a) A portable basework provided with 4 adjustable feet. Adjacent to the level indicator is a notice advising that the instrument must be level when in use.

(b) A dormant instrument which is set level when installed.

1.2 Indicator

The EFM model LC5 digital indicator (Figure 3) is described in Technical Schedule No S159 and is approved for use with up to 5000 verification scale intervals.

1.3 Verification

Provision is made for a verification mark to be applied.

1.4 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/80
Serial number	
Accuracy class	(III)
Maximum capacity	Max .....kg*
Minimum capacity	Min .....kg*
Verification scale interval	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

TABLE 1

Capacity	Verification Scale Interval
1000 kg	1 kg
500 kg	0.5 kg
200 kg	0.2 kg

Model AP1212 - Approved Capacities

TEST PROCEDURE No 6/9C/80

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 1000e.

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.

(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/80 - 1

EFM Model AP1212 Basework

FIGURE 6/9C/80 - 2

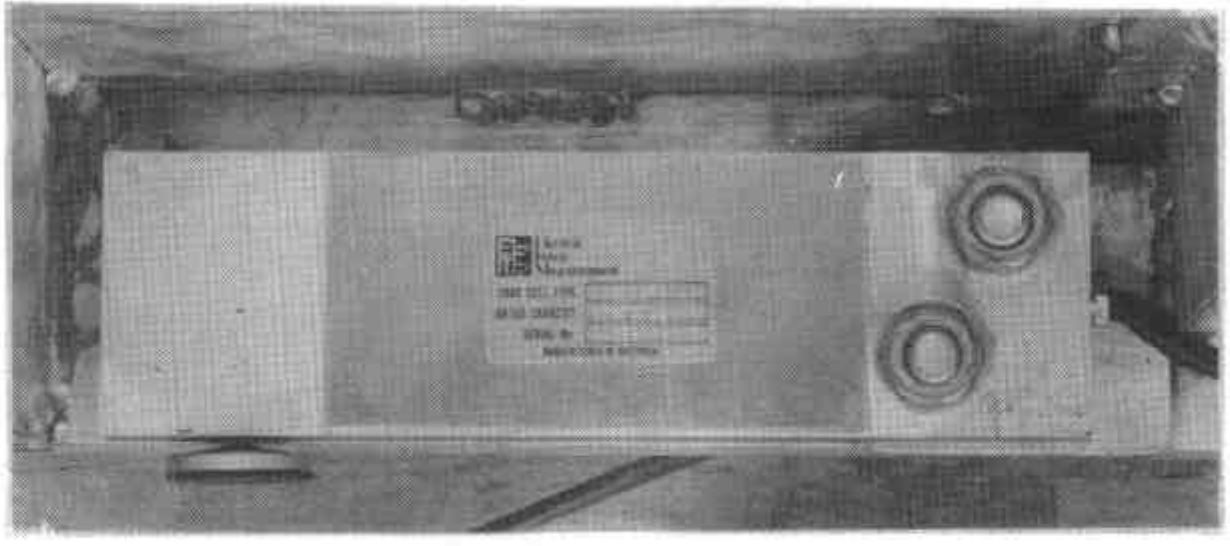

FIGURE 6/9C/80 - 3