

NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S240

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

Teraoka Seiko Model DC-70 Digital Indicator

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

CONDITIONS OF APPROVAL General: This approval is subject to review on or after 1/7/93. This approval expires in respect of new instruments on 1/7/94.

Instruments purporting to comply with this approval shall be marked NSC Nc s240.

This approval may be withdrawn if instruments are constructed other than in accordance with the drawings and specifications lodged with the Commission.

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 an instrument incorporating this indicator shall be within the limits specified in this approval or in any approval documentation for the other components.

Special:

Instruments are approved for use with either 2500 or 5000 verification scale intervals exactly.

Instruments are not approved with a digital tare facility.

Signed

Executive Director

Descriptive Advice

Pattern: approved 28/6/88

A Teraoka Seiko model DC-70 digital mass indicator.

Technical Schedule No S240 describes the pattern.

Supplementary Certificate of Approval No S240

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Filing Advice

The documentation for this approval comprises:

Supplementary Certificate of Approval No S240 dated 5/8/88 Technical Schedule No S240 dated 5/8/88 Test Procedure No S240 dated 5/8/88 Figure 1 dated 5/8/88



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No S240

Pattern: Teraoka Seiko Model DC-70 Digital Indicator.

<u>Submittor</u>: J W Wedderburn & Sons Pty Ltd 90 Parramatta Road Summer Hill NSW 2130.

1. Description of Pattern

A digital mass indicator (Figure 1) approved for use with either 2500 or 5000 verification scale intervals exactly.

The indicator may be fitted with output sockets for the connection of peripheral and/or auxiliary devices. The instrument shown in Figure 1 has a non-functioning integral basework.

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 may be reset by pressing the zero button. The zero light illuminates whenever zero is within \pm 0.25e.

1.2 Display Check

A display check is initiated whenever power is applied.

1.3 Tare

A semi-automatic subtactive taring device of up to 40% of maximum capacity may be fitted.

1.4 Counting Facility

The instrument may be fitted with a counting facility for determining the number of items, of nominally equal mass, from the mass of a quantity of the items. The unit mass of an item must be entered either by weighing a sample of 10 items or by entering a value directly via the instrument keyboard.

1.5 Set Point

A set point facility may be fitted to produce an audible tone when either a mass or quantity set point is reached.

1.6 Memory

This facility allows the quantities of a number of weighings to be totalised.

1.7 Dual Basework Facility

Up to two remote baseworks may be fitted, with the basework to be used selected using the 1/2 button. The counting facilities of the two baseworks may interact, but the weighing and taring functions are independent and shall not interact.

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1.8 Markings

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

Manufacturer's name or mark Serial number Accuracy class (111) Maximum capacity Max kg *# Minimum capacity Min kg * # Verification scale interval $e = d = \dots kg$ * # Maximum subtractive tare T = - kg# NSC approval numbers - Indicator NSC No S240 - Other components (as applicable) Load cell serial numbers

These markings are repeated close to each reading face.

These markings are repeated under the headings SCALE 1 and SCALE 2, except that Tare need not be included when the two baseworks have the same Tare capacity.

In addition instruments are marked NOT FOR TRADING DIRECT WITH THE PUBLIC, or NOT FOR RETAIL COUNTER USE, or similar wording.

1.9 Verification Provision

Provision is made for a verification mark to be applied.



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TEST PROCEDURE No. S240

Instruments should be tested in conjunction with any tests specified in the approval documentation for the weighing instrument to which this indicator is connected, and in accordance with any relevant tests specified in the Inspector's Handbook.

The results shall not exceed the maximum permissible errors specified in Document 118, 2nd Edition, October 1986.

1. Zero Range

The maximum range of operation of the zero setting device should not exceed 4% of the maximum capacity. The device shall be capable of both negative and positive adjustments of at least one-quarter of the zero adjustment range. With zero balance indicated apply a load of, say, 3.5% of maximum capacity, turn the power off and then back on, and then press the zero button; the instrument should not rezero.

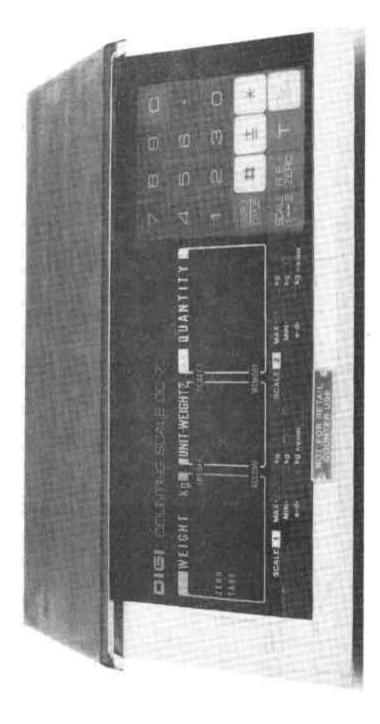
2. Taring

The tare function should be able to reset the mass indicator to zero within \pm 0.25e at any load within its capacity. A tare should not be able to be acquired above the marked tare capacity

It shall not be possible to enter a digital tare. This may be checked by pressing the tare button with the load receptor empty then entering a number on the keypad and pressing the tare button again; the number entered shall not have been accepted as a tare.

3. Counting

A test may be carried out for accuracy of count for a unit mass equal to or greater than the verification scale interval. The number counted shall be correct to one count. All tests shall be carried out using standard masses.



Terapka Seiko DC-70 Indicator

FIGURE 5240 - 1