



6/4D/219
1/5/86

NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/4D/219

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

TEC Model SL35-15 Weighing Instrument

pattern and variants 1 to 3 submitted by Swift - MIP Pty Ltd
(formerly Mauri Industrial Group)
149 Milton Street
Ashfield NSW 2131

variant 4 submitted by TEC Retail Systems and Office Products
Unit B, 6-8 Byfield Street
North Ryde NSW 2113.

Conditions of Approval

This approval is subject to review on or after 1/5/88.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/219.

This approval may be withdrawn if instruments are constructed and used other than in accordance with the drawings and specifications lodged with the Commission.

Instruments which display mass below zero are not for retail counter use and shall be marked accordingly.

Signed

Acting Executive Director

Descriptive Advice

Pattern: approved 15/3/83

- . A self-indicating price-computing weighing instrument of 15 kg capacity with 0.005 kg scale intervals, unit price to \$99.99/kg and price to \$999.99.

Variants: approved 15/3/83

1. With unit price to \$999.99/kg and price to \$9999.99, and known as a model SL39-15.
2. With an output socket for the connection of peripheral and/or auxiliary equipment.

Technical Schedule No 6/4D/219 describes the pattern and variants 1 and 2.

...../2

Variant: approved 26/3/84

3. With semi-automatic subtractive tare of up to 9.995 kg capacity.

Technical Schedule No 6/4D/219 Variation No 1 describes variant 3.

Variant: approved 27/2/86

4. Of 6 kg capacity with 0.002 kg scale intervals and known as a model SL39-06.

Technical Schedule No 6/4D/219 Variation No 2 describes variant 4.

Filing Advice

Certificate of Approval No 6/4D/219 dated 26/4/84 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4D/219 dated 1/5/86
Technical Schedule No 6/4D/219 dated 13/4/83
Technical Schedule No 6/4D/219 Variation No 1 dated 26/4/84
Technical Schedule No 6/4D/219 (including Test Procedure) Variation No 2 dated 1/5/86
Test Procedure No 6/4D/219 (including Table 1) dated 13/4/83
Figures 1 to 4 dated 13/4/83



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/219

Pattern: TEC Model SL35-15 Weighing Instrument

Submitter: Mauri Industrial Group
1 Alice Street
Newtown, New South Wales, 2042.

1. Description of Pattern

The pattern is a self-indicating price-computing weighing instrument (Figures 1 and 2).

| | |
|----------------|-----------------------------|
| Capacity | 15 kg |
| Scale interval | 0.005 kg |
| Unit price | \$99.99/kg in 1c increments |
| Price | \$999.99 in 1c increments. |

1.1 Zero

The instrument is automatically set to zero within 0.25e when the push-button marked Z or ZERO is pressed.

1.2 Automatic Zero-correction Device

This device re-zeroes the instrument within 0.25e whenever the mass indicator indicates zero.

1.3 Display Check

When power is applied to the instrument a display check is initiated following which all displays will blank until the zero push-button is pressed.

1.4 'S' Button

Use of this button allows the unit price to be retained or cleared.

1.5 Clear

Pressing the button marked C will clear the unit price and price displays.

1.6 Markings

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

| | |
|-----------------------------|-------------------------|
| Manufacturer's name or mark | Tokyo Electric Co. Ltd. |
| Serial number | |
| NSC approval number | NSC No 6/4D/219 |
| Accuracy class | <u>III</u> |
| Maximum capacity | Max 15 kg* |
| Minimum capacity | Min 0.1 kg* |
| Verification scale interval | e = d = 0.005 kg* |

* These markings are repeated in the vicinity of each reading face.

1.7 Sealing

A stamping plug is provided.

1.8 Levelling

The instrument is fitted with a level indicator and adjustable feet. A notice advising that the instrument must be level when in use, is located adjacent to level indicator.

2. Description of Variants

2.1 Variant 1

With unit price to \$999.99/kg and price to \$9999.99, and known as a model SL39-15 (Figures 3 and 4).

2.2 Variant 2

With an output socket for the connection of peripheral or auxiliary equipment.

TEST PROCEDURE No 6/40/219

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:

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

1. Zero Range

The maximum range of the zero setting device should not exceed 4% of the maximum capacity ($\pm 2\%$ approximately). Satisfactory setting may be checked by the following method:

With zero balance indicated, apply a load of, say, 2.5% of maximum capacity to the instrument; it should not be possible to obtain zero by means of the zero adjustment.

2. Zero Test

- (a) Check by means of Document 104 that when the ZERO light illuminates, zero is set within 0.25e.
- (b) As the automatic device resets zero when the weighing mechanism is in equilibrium within 0.5e of zero, zero should be checked as described in Document 104, with a load equal to, say, 10e on the load receptor. The indications with 0.25e and 0.75e additional mass on the load receptor will then be 10e and 11e respectively.

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 indication should be blank.
- (b) The minimum mass indicated should be zero; below this the indication should be blank.

4. Load Test

Test loads are to be applied to the 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. Price-computing Accuracy

The indications of mass, unit price and price listed in Table 1 will indicate that the price-computing and mass circuits are functioning correctly. The figures should be indicated exactly as in the table, as rounding is effected within the computer.

Note: This test does not establish correct mass indication; a separate load test in accordance with Document 104 is necessary. This may be carried out in conjunction with the above test.

Table 1

| <u>Indicated Mass</u> | <u>Unit Price</u> | <u>Price</u> |
|-----------------------|-------------------|--------------|
| kg | \$/kg | \$ |
| 0.100 | 99.99 | 10.00 |
| 0.190 | 898.82 | 170.78 |
| 10.000 | 999.99 | 9999.90 |
| 11.000 | 99.99 | 1099.89 |
| 11.965 | 835.77 | 9999.99 |
| 15.000 | 666.66 | 9999.90 |

Price-computing Table - 15 kg Instrument With 0.005 kg Scale Intervals.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/219

VARIATION No 1

Pattern: TEC Model SL35-125 Weighing Instrument.

Submittor: Swift - MIP Pty Ltd
149 Milton Street
Ashfield, NSW, 2131

1. Description of Variant 3

With a semi-automatic subtractive taring device of up to 9.995 kg capacity.

TEST PROCEDURE No 6/4D/219

VARIATION No 1

1. Taring

- (a) Attempt to tare a mass above 9.995 kg. On removal of the mass no tare should have been entered, and the indicator should display all zeroes.
- (b) The tare function should reset the mass indicator to zero within 0.25s at any load within its tare capacity.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/219

VARIATION No 2

Pattern: TEC Model SL35-15 Weighing Instrument
Submitter: TEC Retail Systems and Office Products
Unit B, 6-8 Byfield Street
North Ryde NSW 2113

1. Description of Variant 4

Of 6 kg capacity with 0.002 kg scale intervals, known as a model SL39-06, and either with or without a semi-automatic subtractive taring device of up to 6 kg capacity.

This instrument has unit price to \$999.99/kg and price to \$5999.94.

TEST PROCEDURE No 6/4D/219

VARIATION No 2

1. Taring

- (a) Attempt to tare a mass above the marked tare capacity. On removal of the mass no tare should have been entered, and the indicator should display all zeroes.
- (b) The tare function should reset the mass indicator to zero within 0.25e at any load within its tare capacity.



NATIONAL STANDARDS COMMISSION

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NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/219

CHANGE No 1

The following changes are made to the approval documentation for the
TEC Model SL35-15 Weighing Instrument

submitted by TEC Australia Pty Ltd
(formerly submitted in the name of Swift - MIP Pty Ltd)
6-8 Byfield Street
North Ryde NSW 2113.

- (1) In Technical Schedule No 6/4D/219 Variation No 1 dated 26/4/84, the Description of Variant 3 should be amended by adding the following before the existing text:

"The model SL39-15 (Variant 1) ..."

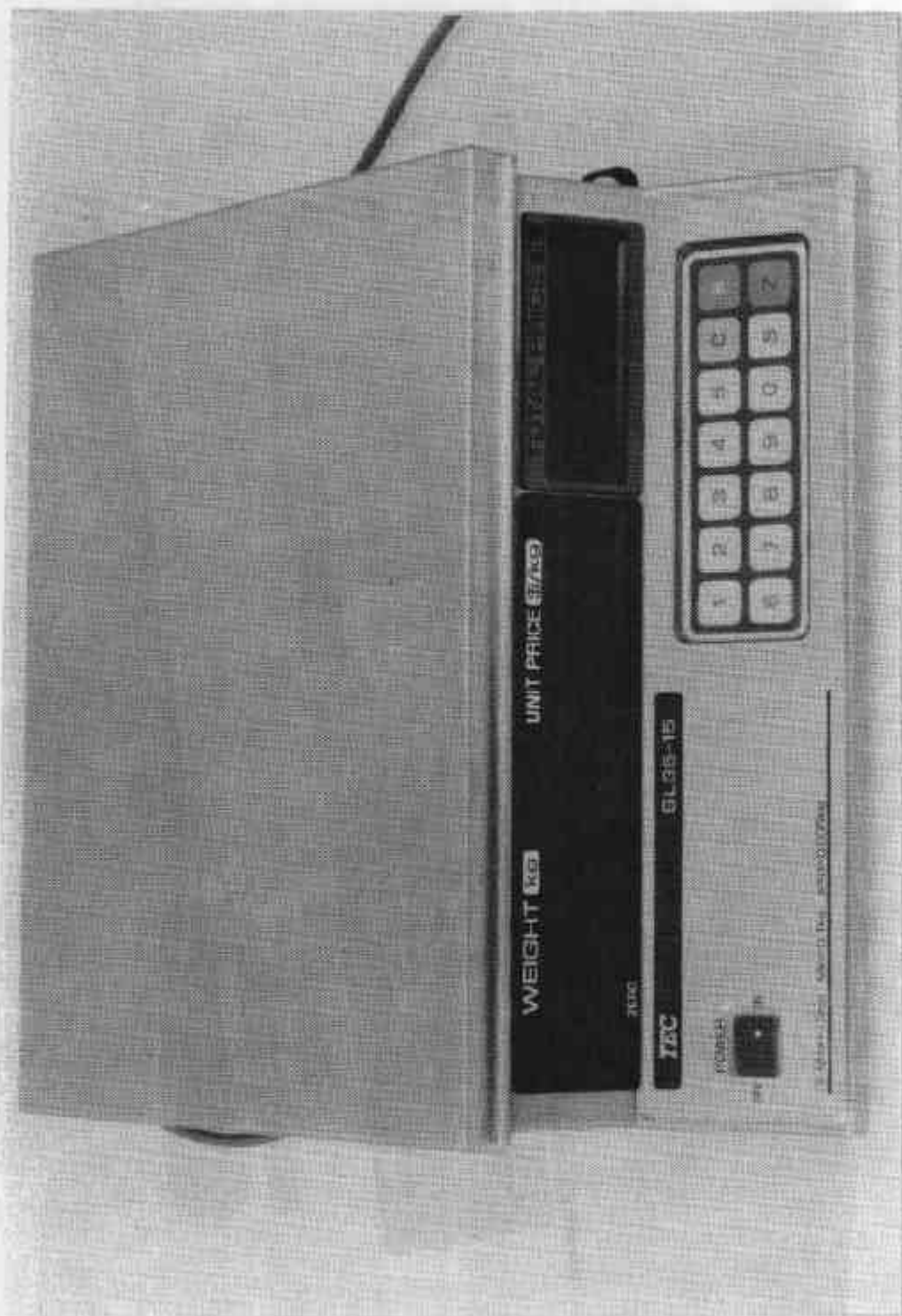
- (2) The Pattern (at the top of the page) should be amended to read:

"TEC Model SL35-15 Weighing Instrument."

Signed

Executive Director

FIGURE 6/40/219 - 1

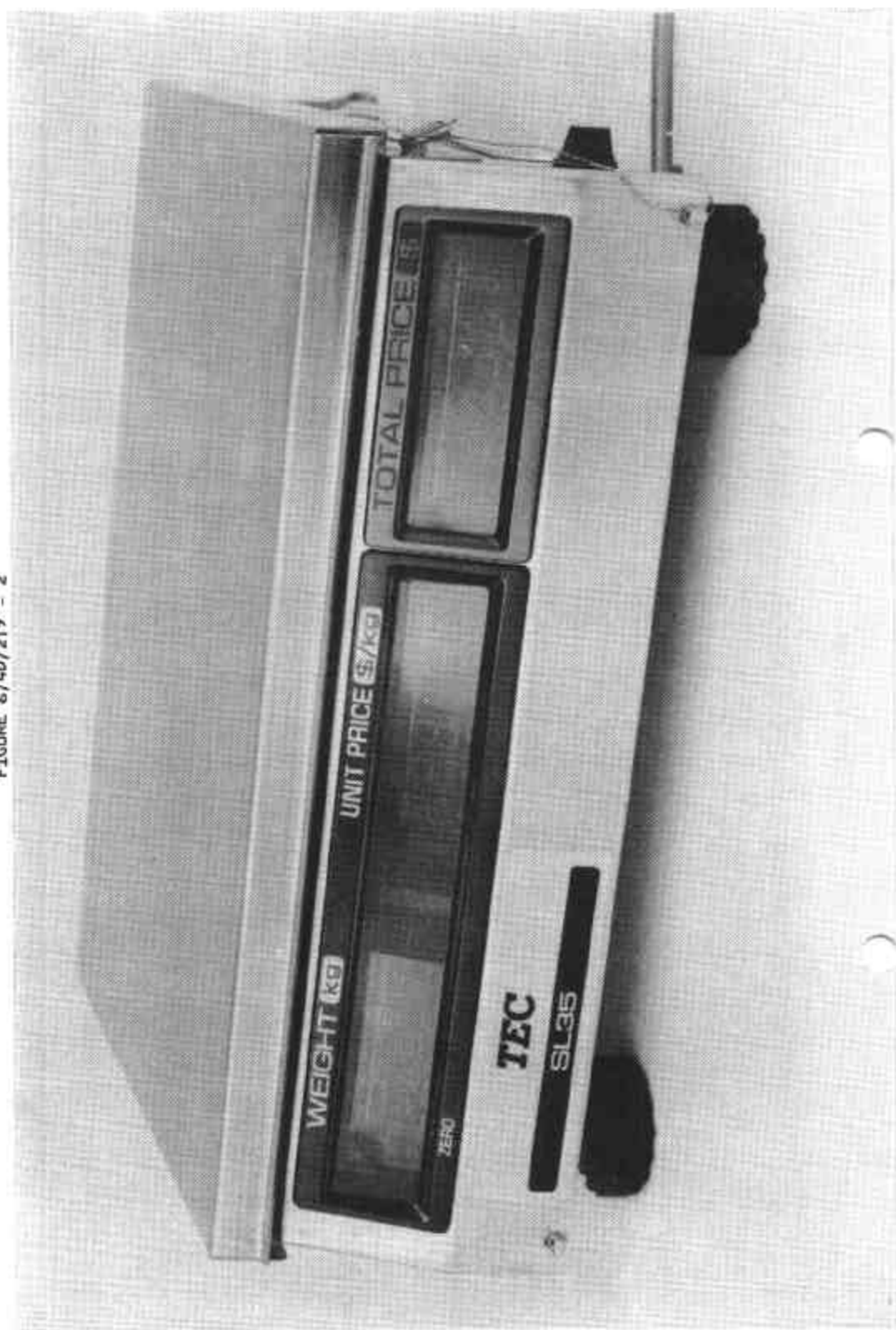


TEC Model 1 SL31-15 - Vendors' Side

13/4/83

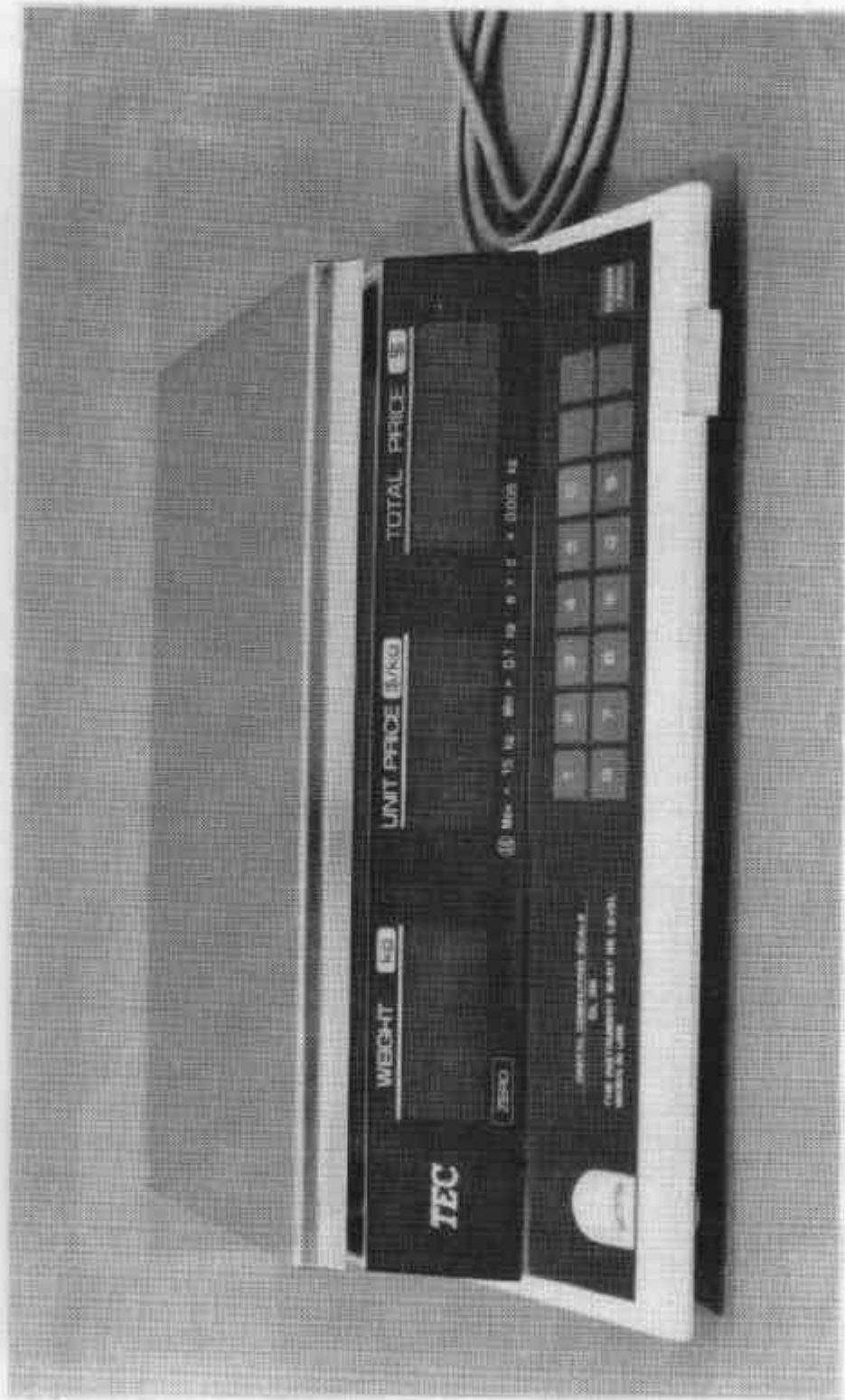
25/10/83

FIGURE 6/4D/219 - 2



Purchasers' Side

FIGURE 6/40/219 - 3



Model SL37-15 - Vendors' Side