

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/4D/222

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

Esselte Meto Model CS491 Weighing Instrument

submitted by Esselte Meto Pty Ltd

80 Lewis Road

Wantirna South VIC 3152.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/8/88. This approval expires in respect of new instruments on 1/8/89.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/222.

This approval may be withdrawn if instruments are constructed other than in accordance with the drawings and specifications lodged with the Commission.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 Certificates Nos S1/O and/or S2/O, as appropriate.

Signed

Executive Director

Descriptive Advice

Pattern:

approved 6/7/83

 A self-indicating price-computing weighing instrument of 10 kg capacity with a verification scale interval of 0.005 kg.

Yariants: approved 6/7/83

- With an output socket for the connection of an auxiliary or a peripheral device.
- 2. With the purchaser indicator mounted on a pillar.

Technical Schedule No 6/4D/222 describes the pattern and variants 1 and 2.

Variants: approved 27/11/84

- 3. Of 6 kg capacity with a verification scale interval of 0.002 kg.
- 4. Of 15 kg capacity with a verification scale interval of 0.005 kg.

Technical Schedule No 6/4D/222 Variation No 1 describes variants 3 and 4.

Certificate of Approval No 6/4D/222

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Variant:

approved 3/12/85

5. With an integral ticket printer and known as the CP 501 series.

Technical Schedule No 6/4D/222 Variation No 2 describes variant 5.

Variant:

approved 16/9/86

6. The model CS491 with a model 4502 NG label printer.

Technical Schedule No 6/4D/222 Variation No 3 describes variant 6.

Variant:

approved 6/4/87

7. Model CPU 501 which has a price-look-up (PLU) facility.

Variant:

approved 25/5/87

8. The model CS491 as a mass only weighing instrument.

Technical Schedule No 6/4D/222 Variation No 4 describes variants 7 and 8.

Variant:

approved 28/6/88

9. The model CS491 with a model 7500 label printer.

Variant:

approved 22/7/88

10. With an RMS model C840 load cell.

Technical Schedule No 6/4D/222 Variation No 5 describes variants 9 and 10.

Filing Advice

Certificate of Approval No 6/4D/222 dated 17/8/87 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4D/222 dated 29/8/88

Technical Schedule No 6/4D/222 dated 25/7/83

Technical Schedule No 6/4D/222 Variation No 1 dated 3/4/85

Technical Schedule No 6/4D/222 Variation No 2 dated 18/3/86

Technical Schedule No 6/4D/222 Variation No 3 dated 23/12/86

Technical Schedule No 6/4D/222 Variation No 4 dated 17/8/87

Technical Schedule No 6/4D/222 Variation No 5 dated 29/8/88

Test Procedure No 6/4D/222 dated 25/7/83

Figure 1 dated 25/7/83

Figure 2 dated 18/3/86

Figure 3 dated 23/12/86

Figure 4 dated 17/8/87



TECHNICAL SCHEDULE No 6/4D/222

Pattern:

Esselte Meto Model CS491 Weighing Instrument

Submittor:

Esselte Meto Pty Ltd

66 Barry Street

Bayswater, Victoria, 3153.

Description of Pattern

The pattern is a model CS491 self-indicating price-computing weighing instrument (Figure 1).

Maximum capacity

10 kg 0.005 kg

Scale interval Unit price

\$999.99/kg in 1c increments \$9999.99 in 1c increments

Price

1.1 Zero

Zero is automatically corrected to within 0.25e, indicated by the ZERO light illuminating, whenever the unit 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 switching the instrument off and then on again. The plus sign illuminates whenever zero is between +0.25e and +0.5e. The minus sign illuminates whenever zero is between -0.25e and -0.5e.

1.2 Display Check

Pressing the TV button causes all display segments and indicators to blank then illuminate all 8's and then return to their original state.

1.3 Unit Price

The unit price is entered via the keyboard and can be manually cleared by pressing the C button.

The unit price automatically returns to zero, unless the FP (Fix Price) button has been pressed, when after one stable weighing operation the mass is removed from the receptor. Fix Price is cancelled by pressing the FP button again.

1.4 Tare

A subtractive tare up to 10 kg is obtained when either the T (Tare) or FC (Fix Tare) button is pressed; a light marked TARE or FIX TARE, as appropriate, is illuminated.

If the FT button is pressed the tare value remains for each weighing operation until button is pressed again.

If the tare was not "fixed" the tare value is cancelled after one stable weighing operation when the tare mass is removed.

1.5 Markings

The instrument is marked with the following data, together in one location:

Manufacturer's name or mark
Serial number
Model number
NSC approval number
Accuracy class
Maximum capacity
Minimum capacity
Verification scale interval
Maximum subtractive tare

NSC No 6/4D/222 (III) Max = 10 kg* Min = 0.100 kg* e = d = 0.005 kg* T=-10 kg

1.6 Levelling

The instrument is provided with a level indicator and adjustable feet. Adjacent to the level indicator is a notice advising that the instrument must be level when in use.

1.7 Verification Provision

A stamping plug is provided on the front of the instrument, near the markings.

2. Description of Variants

2.1 Variant 1

The instrument fitted with an output socket for the connection of auxiliary or peripheral equipment.

2.2 Variant 2

With the purchaser indicator mounted on a pillar.

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

TEST PROCEDURE No 6/4D/222

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.

Zero Range

Check that the range of the zero adjustment is not more than 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, and switch the power off and then back on; the instrument should not rezero.

Zero Test

- (a) Check by means of Document 104, that when the ZERO light is lit, zero is set within 0.25e.
- (b) As the automatic zero tracking device resets zero when the weighing mechanism is in equilibrium within 0.5 scale interval of zero, zero should be checked, with a load equal to, say, 10 scale intervals 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 indicator should be blank.
- (b) Below zero the indication must blank.

4. Taring

- (a) Attempt to tare a mass above maximum capacity as determined in 3(a). 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. This may be checked as described under 2(a) - Zero Test.

5. Test Loads

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.



TECHNICAL SCHEDULE No 6/4D/222

VARIATION No 1

Pattern:

Esselte Meto Model CS491 Weighing Instrument

Submittor:

Esselto Meto Pty Ltd

66 Barry Street

Bayswater Vic 3153

1. Description of Variants

1.1 Variant 3

Of 6 kg capacity with 0.002 kg scale intervals, unit price to \$999.99/kg, and price to \$5999.94.

A taring device may be fitted with a capacity up to maximum capacity.

1.2 Variant 4

Of 15 kg capacity with 0.005 kg scale intervals, unit price to \$999.99/kg and price to \$9999.99.

A taring device may be fitted with a capacity up to maximum capacity.



TECHNICAL SCHEDULE No 6/4D/222

VARIATION No 2

Pattern: Esselte Meto Model CS491 Weighing Instrument

Submittor: Esselte Meto Pty Ltd

80 Lewis Road

Wantirna South Vic 3152

Description of Variant 5

With an integral ticket printer and added management facilities and known as the CP 501 series (Figure 2). The instrument has unit price up to \$9999.99/kg and total price up to \$9999.99.

Zero to within 0.25e is indicated by means of a \square in the mass display.

The CP 501 series consists of the following models:

- CP 501 BASIC includes a facility for 2 simultaneous transactions. Details of each item purchased are stored in one of 2 memories. On completion of the total transaction, the details are recalled and automatically itemised and totalised on a ticket for the purchaser.
- CP 501 ANALYTIC as described above and in addition with additional management facilities including printing the total for each transaction twice.
- CP 501 ANALYTIC EAN as described above and in addition with bar code facility.

NOTE: Where a totallising function is provided in the presence of the purchaser the ticket printer is mandatory. Alternately, the instrument is marked not for retail counter use.



TECHNICAL SCHEDULE No 6/4D/222

VARIATION No 3

Pattern:

Esselte Meto Model CS491 Weighing Instrument

Submittor:

Esselte Meto Pty Ltd

80 Lewis Road

Wantirna South Vic 3152

1. Description of Variant 6

The model CS491 weighing instrument of any approved capacity, and connected to a model 4502 label printer which has up to 199 PLU (price-look-up) entries.

Figure 3 shows a typical label.



TECHNICAL SCHEDULE No 6/4D/222

VARIATION No 4

Pattern:

Esselte Meto Model CS491 Weighing Instrument

Submittor:

Esselte Meto Pty Ltd

80 Lewis Road

Wantirna South Vic 3152.

1. Description of Variants

1.1 Variant 7

The model CPU 501 (Figure 4) which has a price-look-up (PLU) facility. This model is similar to the CP 501 series (Variant 5) including having an integral ticket printer, but in addition has a PLU keyboard and has the indicator mounted on a pillar.

Instruments may be used in any of the following switch-selectable modes:

Mode A - with 28 PLU functions.

Mode B - with 20 PLU functions and 8 department keys.

Mode Plus - with 8 departments each having 20 PLU functions.

Mode ECR - similar to mode B but also with cash register functions

(e.g. cash, cheque, change)

1.2 Variant 8

The model CS491 as a mass only weighing instrument. The instrument may be fitted with an output socket for the connection of an auxiliary or a peripheral device.



TECHNICAL SCHEDULE No 6/4D/222

VARIATION No 5

Pattern:

Esselte Meto Model CS491 Weighing Instrument.

Submittor:

Esselte Meto Pty Ltd

80 Lewis Road

Wantirna South VIC 3152.

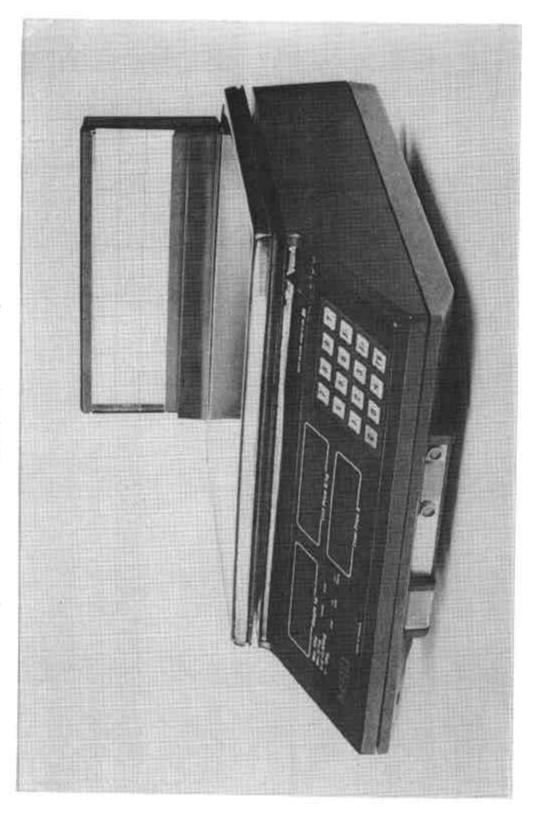
1. Description of Variants

1.1 Variant 9

The model CS491 weighing instrument of any approved capacity, and connected to a model 7500 thermal label printer which has up to 300 PLU (price-look-up) entries.

1.2 Variant 10

With the Esselte Meto 15 kg load cell as used in the pattern and variants replaced by the RMS model C840 15 kg load cell.



Esselte Meto Model CS491

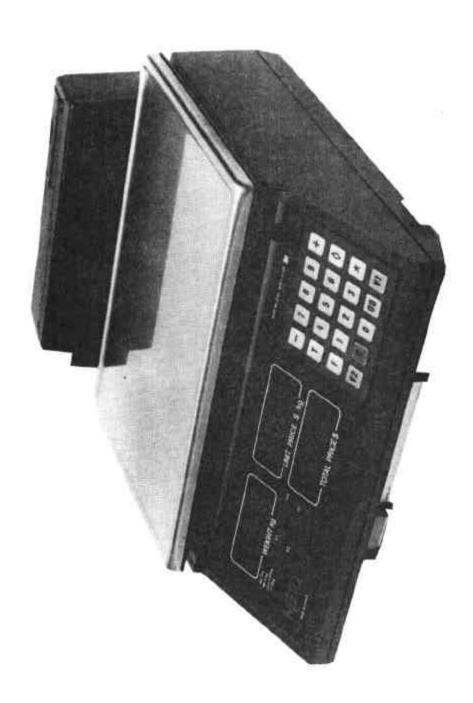


FIGURE 6/40/222 - 2

FIGURE 6/40/222 - 3

18.11.86 TEST TWO

USE BY NET WT kg PRICE S/kg TOTAL PRICE S

28.11.86 2,000 7,89 15,78

