

National Standards Commission



Certificate of Approval

No 6/4D/235A

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

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

GEC Avery Model A100 Weighing Instrument

submitted by GEC Avery Australia Limited
3 Birmingham Avenue
Villawood NSW 2163.

This Certificate is issued upon completion of a review of NSC approvals Nos 6/4D/235 and 6/4D/246.

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink that reads 'J. Birch'.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/1/97.

This approval expires in respect of new instruments on 1/1/98.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/235A and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the drawings and specifications lodged with the Commission and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with the Commission's Document 106.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificates Nos S1/0 and/or S2/0, as appropriate.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 11/12/91

. A GEC Avery model A100 self-indicating price-computing weighing instrument of 15 kg maximum capacity.

Variants: approved 11/12/91

1. The model A100E with a facility for storing tare values and with a 'Retail/Prepack' option.
2. The model A100E AVR self-indicating dual-interval price-computing weighing instrument of 15 kg maximum capacity.
3. The model A101 which is fitted with a side-mounted ticket printer.
4. The model A101E which has the features of the model A101 and has a facility for storing tare values and with a 'Retail/Prepack' option.
5. The model A102 which has the features of the model A100 but is fitted with an alternative indicator.

6. The model A104 which has the features of the model A101 and has additional cash register functions.
7. The model B700 which can only be used in 'Prepack' mode.
8. Certain instruments connected in a network.

Technical Schedule No 6/4D/235A describes the pattern and variants 1 to 8.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4D/235A dated 10/2/92
Technical Schedule No 6/4D/235A dated 10/2/92 (incl. Test Procedure)
Figures 1 to 4 dated 10/2/92



National Standards Commission

TECHNICAL SCHEDULE No 6/4D/235A

Pattern: GEC Avery Model A100 Weighing Instrument.

Submittor: GEC Avery Australia Limited
3 Birmingham Avenue
Villawood NSW 2163.

1. Description of Pattern

A GEC Avery model A100 self-indicating price-computing weighing instrument (Figure 1) of 15 kg maximum capacity with a verification scale interval of 0.005 kg. Instruments have unit price to \$999.99/kg, price to \$9999.99, a price-look-up (PLU) facility, and may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

Instruments may be fitted with an integral printer, either a model B100 label printer shown in Figure 1, or a model B200/B201 label printer, or a model B202/B203 side-mounted ticket printer.

Instruments are fitted with a GEC Avery model T103 load cell of 15 kg capacity. They may also be known as Berkel model 688 LS ('Release 1').

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e$ whenever power is applied and whenever the instrument comes to rest within $0.5e$ of zero.

1.2 Tare

A semi-automatic subtractive taring device of up to 7.5 kg capacity may be fitted.

1.3 Display Check

A display check is initiated whenever power is applied or when the TEST (or 'V') button is pressed.

1.4 Levelling


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

1.5 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

1.6 Markings

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

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4D/235A
Accuracy class	
Maximum capacity	Max kg *
Verification scale interval	e = d = kg *
Minimum capacity	Min kg *
Maximum subtractive tare	T = - kg

* Repeated adjacent to each reading face.

2. Description of Variants

2.1 Variant 1

The model A100E with a facility for storing tare values and with a 'Retail/Prepack' option. Instruments have unit price to \$999.99/kg and price to \$9999.99 for non-barcode tickets. When a barcode is used the maximum price is \$999.99.

The instrument may also be known as a Berkel model 688 LS ('Release 2').

(a) Tare

The stored tare facility may be either semi-automatic or keyboard-entered non-automatic. Instruments may also be fitted with a semi-automatic subtractive taring device. All devices are of up to 7.5 kg capacity.

(b) Retail/Prepack

The A100E may be switched to either 'Retail' or 'Prepack' mode via the manager's key. When in 'Retail' mode, a purchaser's indicator shall function, and only the semi-automatic taring device shall be operable. When in 'Prepack' mode, the vendor's and purchaser's commodity displays show the word 'Prepack' (except when a product is being selected when the vendor's display will show the product description and the purchaser's display will blank); both displays will revert to 'Prepack' after a short interval.

Instruments are fitted with a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC WHILE IN PREPACK MODE, or similar wording.

2.2 Variant 2

The model A100E AVR self-indicating dual-interval price-computing weighing instrument with a verification scale interval of 0.002 kg up to 6 kg and with a verification scale interval of 0.005 kg from 6 kg up to the maximum capacity of 15 kg.

Instruments may also be known as Berkel model 688 LS AVR.

The instrument may be fitted with a semi-automatic subtractive taring device of up to 2 kg capacity.

Instruments shall be marked as specified in Cl. 1.6 **Markings** for the pattern, except that the 'Maximum Capacity' and the 'Verification Scale Interval' shall be marked for both 'Low Range' and 'High Range'.

2.3 Variant 3

The model A101 which has the features of the model A100 and which is fitted with a model 501 side-mounted ticket printer. The instrument has facilities for transaction data to be entered into operator memories, with a totalised ticket being produced at the end of a number of transactions. This model has a total price range up to \$999.99.

2.4 Variant 4

The model A101E which has the features of the model A101 and in addition has the facility for storing tare values and the 'Retail/Prepack' option described in Variant 1 for the model A100E.

2.5 Variant 5

The model A102 (Figure 2) which has the features of the model A100 but is fitted with an alternative indicator.

Instruments may also be known as Brecknell model 150.

2.6 Variant 6

The model A104 (Figure 3) which has the features of the model A101 and in addition has additional cash register functions, such as the entry of amount tendered, and calculation of change.

Instruments may also be known as Berkel model 688 R.

2.7 Variant 7

The model B700 (Figure 4) which is similar to the model A100E (Variant 1) but does not have the 'Retail' option i.e. it can only be used in 'Prepack' mode.

Instruments may be fitted with a variety of label dispensers.

2.8 Variant 8

A number of any of the instruments listed below may be connected in a network to utilise common price-look-up (PLU) data and to allow communication of other management data.

- . A100/Berkel 688 LS ('Release 1'); or
- . A100E/Berkel 688 LS ('Release 2') and/or B700; or
- . A101 and/or A104/Berkel 688 R; or
- . A101E.

Note To Inspectors: (for all networks)

The networks may be connected to a computer for the downloading of PLU data and for the communication of other management data.

The weighing and price-computing functions of each weighing instrument in the network are independant, and the removal, repair or replacement of a particular weighing instrument does not necessitate the reverification of any other instrument in the network.

TEST PROCEDURE

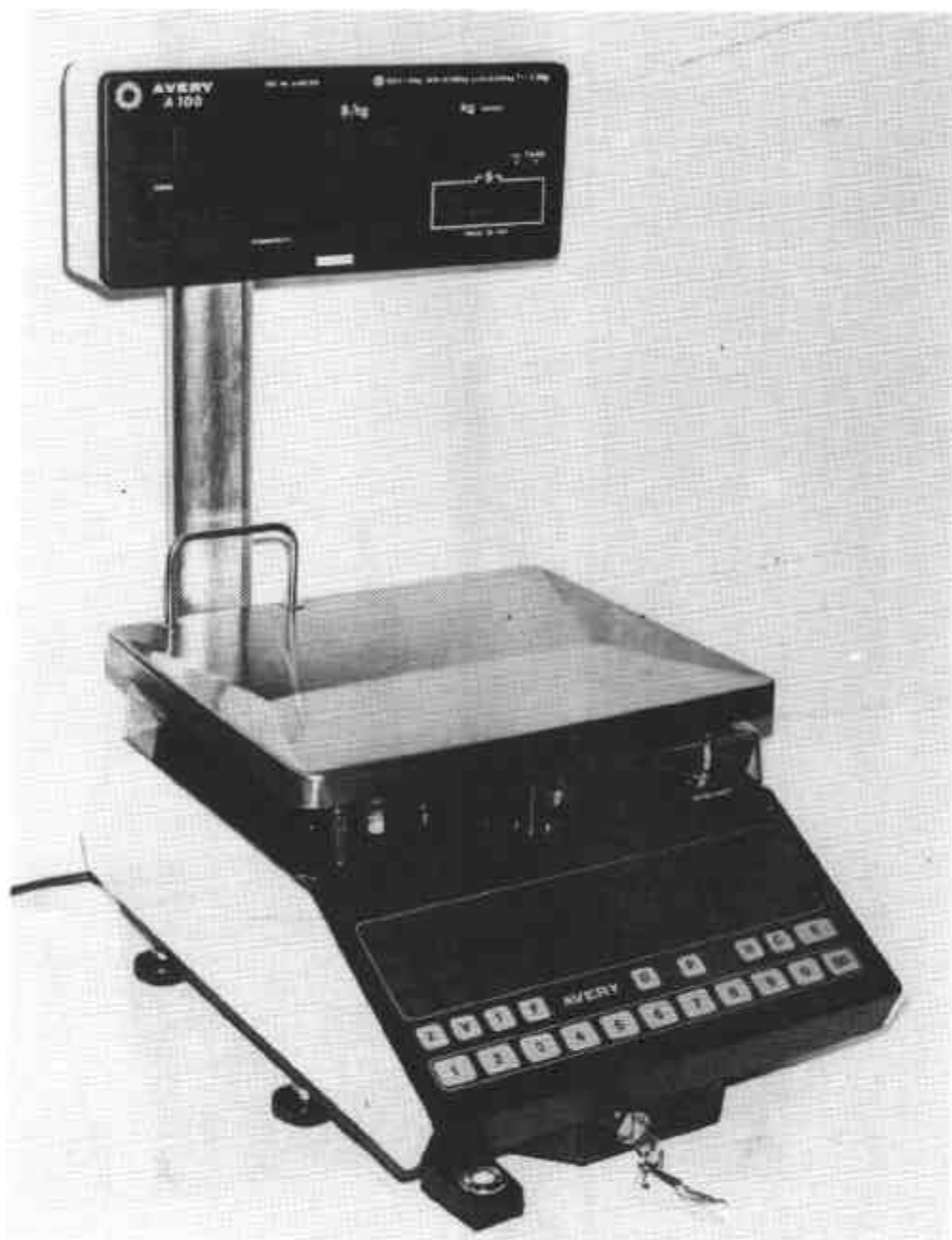
Instruments should be tested in conjunction with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within $\pm 0.25e$ at no load, are:

- $\pm 0.5e$ for loads from 0 to $500e$;
- $\pm 1.0e$ for loads over $500e$ up to $2000e$; and
- $\pm 1.5e$ for loads over $2000e$.

FIGURE 6/4D/235A - 1



GEC Avery Model A100 Weighing Instrument

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FIGURE 6/4D/235A - 2



Model A102

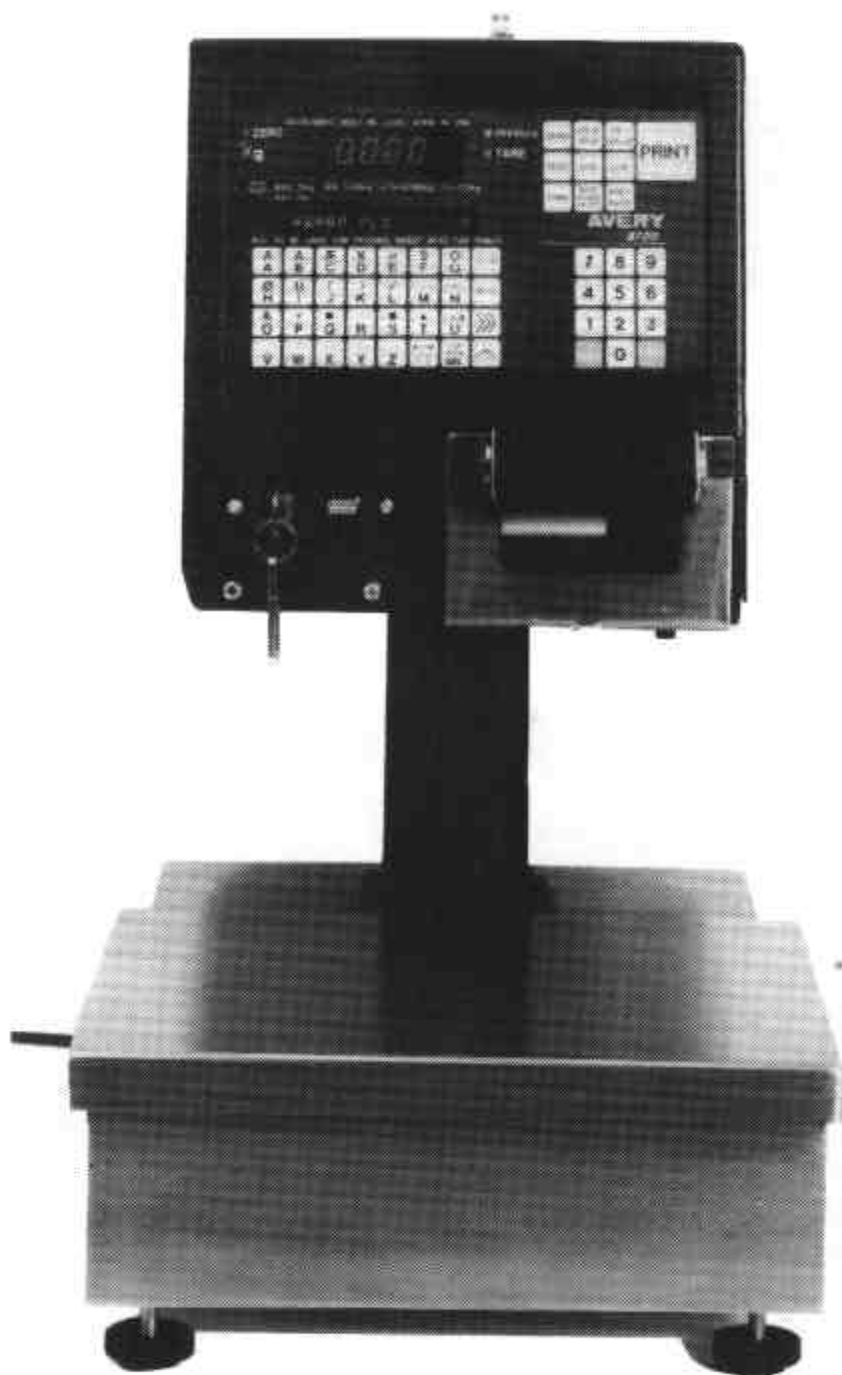
FIGURE 6/4D/235A - 3



Model A104

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FIGURE 6/4D/235A - 4.



Model B700