



Australian Government
Department of Industry,
Innovation and Science

**National
Measurement
Institute**

**Cancellation
Certificate of Approval
NMI 6/4D/322**

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

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

Avery Berkel Model IX 202 Weighing Instrument

submitted by Avery Berkel (a Division of ITW Limited)
Foundry Lane
Smethwick
West Midlands B66 2LP
UK

has been cancelled in respect of new instruments as from 1 March 2016.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 to 5 approved – interim certificate issued	16/05/05
1	Pattern & variants 1 to 5 approved – certificate issued	24/05/05
2	Pattern & variants 1 to 5 reviewed – certificate issued	15/10/10
3	Pattern & variants 1 to 5 cancelled – cancellation certificate issued	12/02/16

Signed by a person authorised by the Chief Metrologist
to exercise their powers under Regulation 60 of the
National Measurement Regulations 1999.

A handwritten signature in black ink, appearing to read 'Dr A Rawlinson'.

Dr A Rawlinson



Australian Government
**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Certificate of Approval
No 6/4D/322

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the
Avery Berkel Model IX 202 Weighing Instrument



submitted by Avery **Weigh-Tronix Ltd**
Foundry Lane
Smethwick
West Midlands B66 2LP UK.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

CONDITIONS OF APPROVAL



This approval becomes subject to review on 1 June **2010**, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 6/4D/322' and only by persons authorised by the submitter.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) 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 document NMI P 106.

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

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

Special Conditions of Approval:

Certain aspects of this instrument (in particular label and ticket formats) are able to be configured by the user. Whilst NMI believes that acceptable label and ticket formats can be achieved for typical basic sales modes, it is also possible for the instrument to be configured to produce unacceptable formats, and use of some formats may be inappropriate for different sales modes. It is the responsibility of the user to ensure that acceptable and appropriate formats are used in any particular situation.

DESCRIPTIVE ADVICE

Pattern: approved 16 May 2005

- An Avery Berkel model IX 202 single interval self-indicating price-computing weighing instrument with a maximum capacity of 6 kg.

Variants: approved 16 May 2005

1. Model IX 212 – with receipt (ticket) only printer.
2. Model IX 100 – with integral displays.
3. Model IX 110 – with integral displays and receipt (ticket) only printer.
4. Of certain other maximum capacities.
5. As multi-interval instruments of certain capacities

Technical Schedule No 6/4D/322 describes the pattern and variants 1 to 5.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4D/322 dated 24 May 2005

Technical Schedule No 6/4D/322 dated 24 May 2005 (incl. Test Procedure)

Figures 1 to 4 dated 24 May 2005




Signed by a person authorised by the Chief Metrologist
to exercise his powers under Regulation 60 of the
National Measurement Regulations 1999.


A handwritten signature in black ink, appearing to be 'J. G. T.', written in a cursive style.

TECHNICAL SCHEDULE No 6/4D/322

Pattern: Avery Berkel Model IX 202 Weighing Instrument

 **Submittor:** Avery **Weigh-Tronix Ltd**
Foundry Lane
Smethwick, West Midlands B66 2LP UK

1. Description of Pattern

 An Avery Berkel model IX 202 single interval self-indicating price-computing weighing instrument (Figures 1 and 2) of maximum capacity of 6 kg with a verification scale interval of 0.001 kg.

Instruments are fitted with a double-sided column-mounted alphanumeric display and an integral printer (#). Instruments can print tickets, or (in pre-pack mode) labels to be attached to pre-packaged articles. Instruments have unit price to \$9999.99/kg, price to \$9999.99, a product look up (PLU) facility, and may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices.

The instrument operates from mains AC power. The instrument may in addition operate from an internal or external back-up battery power supply (24 V DC).

(#) Refer to the Special Condition of Approval.

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.

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

The instrument has a semi-automatic zero setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

The instrument has an automatic zero setting device (which operates only when the instrument has been stable below zero for at least 5 seconds) with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic and/or non-automatic keyboard-entered pre-set subtractive tare device, each up to the maximum capacity of the instrument, may be fitted.

Pre-set tare values may be associated with product look up (PLU) items.

A display of tare values is provided.

1.3 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.

1.4 Display Check

A display check is initiated whenever power is applied.

1.5 Networking

A number of instruments may be connected in a network to share common PLU data, and to accumulate and retrieve management information.

In addition, the network may be interfaced with a computer for the collection of management data, or the downloading of PLU data.

Note: The weighing and price computing functions of each weighing instrument in the network are independent, and the removal, repair or replacement of a particular weighing instrument does not necessitate re-verification of any other weighing instrument in the network.

1.6 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of destructible labels placed over the calibration adjustment access hole located on the underside of the instrument and over a screw to prevent access within the instrument housing, as shown in Figure 3.

1.7 Descriptive Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Avery Berkel	
Name or mark of manufacturer's agent	
Indication of accuracy class	Ⓜ	
Pattern approval mark for the instrument	NMI 6/4D/322	
Maximum capacity	<i>Max</i> g or kg	#1
Minimum capacity	<i>Min</i> g or kg	#1
Verification scale interval	<i>e</i> = g or kg	#1
Maximum subtractive tare	<i>T</i> = - g or kg	#2
Serial number of the instrument	

#1 These markings are also shown near the display of the result if they are not already located there.

#2 This marking is required if *T* is not equal to *Max*.

1.8 Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

2. Description of Variants

2.1 Variant 1

The model IX 212 which is similar to the IX 202 but has a receipt (ticket) only printer operation.

2.2 Variant 2

The model IX 100 which is similar to the IX 202 but which has the operator and customer displays incorporated within the body of the instrument (Figure 4).

2.3 Variant 3

The model IX 110 which is similar to the IX 100 but has a receipt (ticket) only printer operation.

2.4 Variant 4

The pattern or variants as single interval instruments of certain other capacities as listed below:

- of 12 kg maximum capacity with a verification scale interval of 0.002 kg. The maximum tare capacity is 9.998 kg; and
- of 15 kg maximum capacity with a verification scale interval of 0.005 kg. The maximum tare capacity is 9.995 kg.

2.5 Variant 5

As multi-interval instruments of certain capacities as listed below:

- with a verification scale interval of 0.001 kg up to 3 kg and with a verification scale interval of 0.002 kg from 3 kg up to 6 kg.
The maximum semi-automatic and pre-set tare capacity is 1 kg; and
- 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 15 kg.

The maximum semi-automatic and pre-set tare capacity is 2 kg.

Instruments are marked with the "Maximum capacity" and with the "Verification scale interval" for both interval ranges, in addition to the other data specified in clause **1.8 Markings**.

TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Uniform Test Procedures.

Maximum Permissible Errors at Verification/Certification

For single range instruments, the maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads, m , expressed in verification scale intervals, e , are:

- $\pm 0.5e$ for loads $0 \leq m \leq 500$;
- $\pm 1.0e$ for loads $500 < m \leq 2\,000$; and
- $\pm 1.5e$ for loads $2\,000 < m \leq 10\,000$.

For multi-interval instruments with verification scale intervals of $e_1, e_2 \dots$, apply e_1 for zero adjustment, and maximum permissible errors apply $e_1, e_2 \dots$, as applicable for the load.



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Notification of Change Certificate of Approval No 6/4D/322 Change No 1

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following changes are made to the approval documentation for the
Avery Berkel Model IX 202 Weighing Instrument

submitted by Avery Berkel (a Division of ITW Limited)
 (formerly Avery Weigh-Tronix Ltd)
 Foundry Lane
 Smethwick
 West Midlands B662LP UNITED KINGDOM.

- A. In Certificate of Approval No 6/4D/322 dated 24 May 2005:
1. All references to the name of the submitter should be amended to read:
 “Avery Berkel (a Division of ITW Limited)”
 2. The Condition of Approval referring to the review of the approval should be amended to read:
 “This approval becomes subject to review on 1 June **2015**, and then every 5 years thereafter.”
 3. The FILING ADVICE should be amended by adding the following:
 “Notification of Change No 1 dated 15 October 2010”
- B. In Technical Schedule No 6/4D/322 dated 24 May 2005:
1. All references to the name of the submitter should be amended to read:
 “Avery Berkel (a Division of ITW Limited)”
 2. The 1st paragraph of clause **1. Description of Pattern** should be amended by adding the following:
 “There may be cosmetic differences from the instruments as shown in Figures 1, 2 and 4.”

Signed by a person authorised by the Chief Metrologist
to exercise his powers under Regulation 60 of the
National Measurement Regulations 1999.

A handwritten signature in black ink, consisting of stylized cursive letters, likely representing the Chief Metrologist.

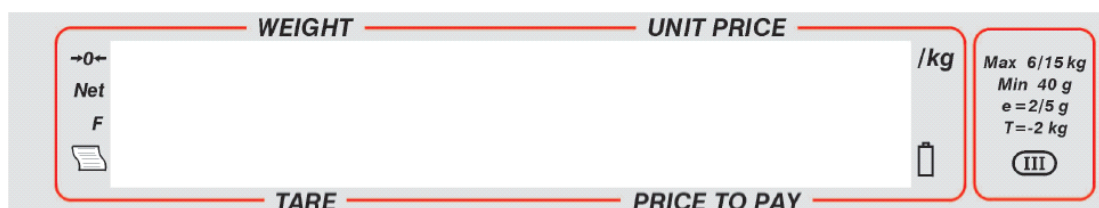
FIGURE 6/4D/322 – 1



Avery Berkel Model IX 202 Weighing Instrument

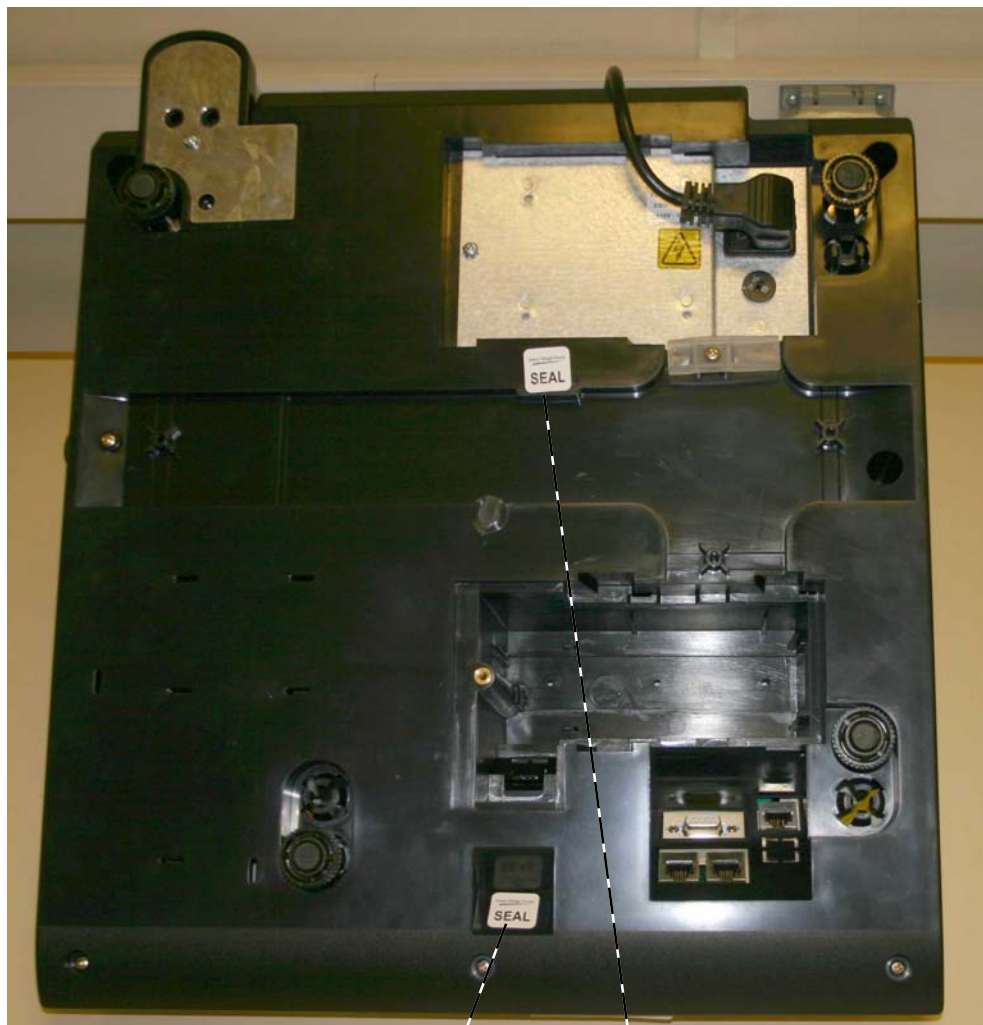
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FIGURE 6/4D/322 – 2



Typical Facia Overlay – In this case, for a model IX 100 multi-interval instrument

FIGURE 6/4D/322 – 3



Showing Typical Sealing

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FIGURE 6/4D/322 – 4



Avery Berkel Model IX 100 Weighing Instrument