



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation
Certificate of Approval
No 4/5/14C

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

Precision Measures Model Measurematic Spirit Dispenser

submitted by Precision Measures Limited
6 Buckhurst Street
South Melbourne VIC 3205

has been cancelled in respect of new instruments as from 1 April 2011.

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 a series of loops and flourishes, positioned to the right of the signature text.



Australian Government

National Standards Commission

12 Lyonpark Road, North Ryde NSW 2113 Australia

Certificate of Approval

No 4/5/14C

Issued 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

Precision Measures Model Measurematic Spirit Dispenser

submitted by Precision Measures Limited
6 Buckhurst Street
South Melbourne VIC 3205.

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.

This Certificate is issued upon completion of a review of NSC approval No 4/5/14B.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 December 2008, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 4/5/14C and only by persons authorised by the submittor.

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 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 NSC P 106.

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

DESCRIPTIVE ADVICE

Pattern: approved 14 November 2003

- A Precision Measures model Measurematic bottle-mounted spirit dispenser of 30 mL capacity.

Variants: approved 23 May 2004

1. The model Measurematic of 15 mL capacity.
2. The model Measuremaster in both 15 mL and 30 mL capacities.
3. The models Maxi-Matic and Maxi-Master in both 15 mL and 30 mL capacities.

Technical Schedule No 4/5/14C describes the pattern and variants 1 to 3.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 4/5/14C dated 24 June 2004
Technical Schedule No 4/5/14C dated 24 June 2004 (incl. Test Procedure)
Figures 1 to 5 dated 24 June 2004

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



TECHNICAL SCHEDULE No 4/5/14C

Pattern: Precision Measures Model Measurematic Spirit Dispenser

Submittor: Precision Measures Limited
6 Buckhurst Street
South Melbourne VIC 3205

1. Description of Pattern

The pattern is a model Measurematic bottle-mounted spirit dispenser (Figure 1) approved for dispensing certain spirits. The instrument is designed to dispense a quantity of 30 mL per delivery.

1.1 Field of operation

The field of operation of the spirit dispenser is determined by the following characteristics:

- Approved spirits are brandy (including cognac and armagnac), gin, rum, vodka, and whisky (whiskey).
- Pour size 30 mL
- Ambient temperature range 5°C to 40°C
- Power pack input voltage range 204 V to 264 V AC

1.2 Details

The instrument includes the following:

- An inlet with a small reservoir designed to accept a bottle of spirit.
- Liquid level sensing probes incorporated in the inlet reservoir for 'last nip lockout'.
- A measuring chamber incorporating motorised cam-operated valving and an electronic control module.
- A push-type switch for activating the delivery.
- A transfer point in the form of an outlet spout.

A counter may also be fitted, which is not approved for trade use.

A Precision Measures 24 V AC power pack is used.

Instruments may be fitted with tapping points (Figure 2) which allow the transfer of information to a bar management system.

1.3 Operation

The operation of the instrument is automatically-controlled to ensure that a delivery once started cannot be stopped by the operator until the delivery is completed, and the next delivery cannot be started until the measuring chamber is full as indicated by the LED. Positioning the receiving glassware under the transfer point and against the push-type switch activates the delivery.

1.4 Descriptive Markings

The instrument is clearly marked, either on a permanently attached nameplate, or as part of the instrument, with the following information:

Manufacturer's name or mark
Serial number
NSC number	NSC No 4/5/14C
Quantity mL (#)
Model designation

(#) The instrument is clearly and permanently marked '30 mL' or '15 mL', as appropriate, in one or more locations clearly visible to the operator and to the customer.

1.5 Sealing Provision

Provision is made for sealing access to the operating and timing mechanisms by placing a destructive label across the joint of the body and the measuring chamber.

1.6 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied. This may be combined with the label used for sealing, at the discretion of the person conducting the verification/certification.

2. Description of Variants

2.1 Variant 1

The model Measurematic designed to dispense a quantity of 15 mL per delivery. Instruments are marked accordingly.

2.2 Variant 2

The model Measuremaster (Figure 3) with modified operational mechanism designed for dispensing a quantity of either 15 mL or 30 mL per delivery. The instrument incorporates a mechanical air-damped timing mechanism and a plunger type switch that activates the delivery cycle by raising the plunger. At the start of the cycle the inlet valve closes and the outlet valve opens and remains open for approximately half of the cycle, during which time the delivery of liquor is completed. The outlet valve then closes and the inlet valve opens allowing the measuring chamber to fill during the second half of the cycle. Liquid level probes control a solenoid to prevent the plunger from being raised whenever the probes detect insufficient liquid.

2.3 Variant 3

The Maxi-Measure series of instruments comprising the model Maxi-Matic or model Maxi-Master (Figures 4 and 5) designed for dispensing a quantity of either 15 mL or 30 mL per delivery. Instruments are comprised of a number of Measurematic or Measuremaster dispensers, and then mounted as a group of individual units fitted with an enlarged reservoir at the top of each dispenser (Figure 4) or a number of dispensers are mounted on a common frame with internal reservoirs (Figure 5). The liquid level sensing probes (that detect low liquid level) have been extended to the reservoir. One or more keylocks may be fitted which are not approved for trade use, including one which allows managers to bypass the 'last nip lockout' during cleaning.

TEST PROCEDURE

Instruments should be tested in conjunction with any relevant tests specified in the NSC document *Test Procedure No 3, Alcoholic Beverage Measures*.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors applicable at verification/certification are:

- ±0.6 mL for deliveries of 15 mL; and
- ±1.0 mL for deliveries of 30 mL.

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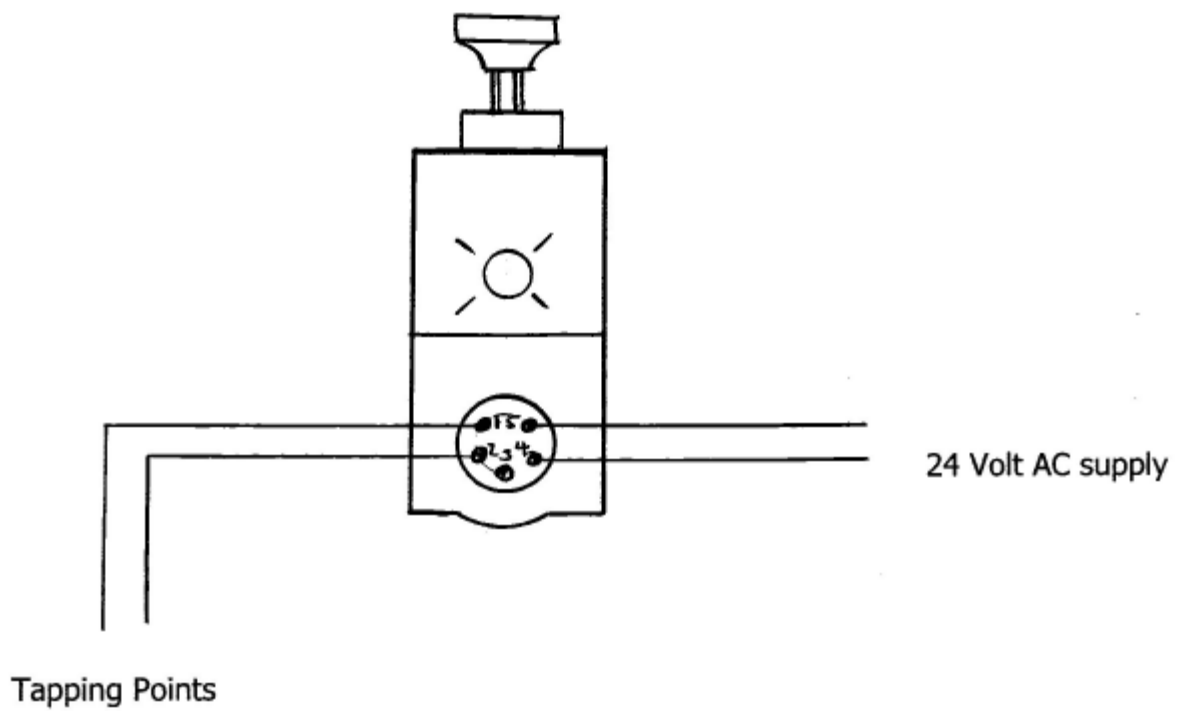
FIGURE 4/5/14C – 1



Precision Measures Model Measurematic Spirit Dispenser

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FIGURE 4/5/14C – 2



REAR VIEW: DISPENSER MOUNTING LUG

Showing Output Socket

FIGURE 4/5/14C – 3



Precision Measures Model Measuremaster Spirit Dispenser

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FIGURE 4/5/14C – 4



Precision Measures Model Maxi-Matic – 4 Single-bottle Units

FIGURE 4/5/14C – 5



Precision Measures Model Maxi-Matic – 6-bottle Unit