



Australian Government
National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Cancellation
Certificate of Approval No 4/5/12C

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 Approval NSC
4/5/12C in respect of the

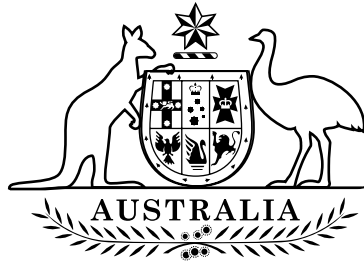
KRS Design Model EMU CH8/A Spirit Dispenser

submitted by Bryring Pty Ltd
 38 Hamilton Street
 Dapto NSW 2350

has been cancelled in respect of new instruments as from 1 April 2007.

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. H. T.', written in a cursive style.



National Standards Commission

Certificate of Approval

No 4/5/12C

Issued under Regulation 63
of the
National Measurement Regulations 1999

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

KRS Design Model EMU CH8/A Spirit Dispenser

submitted by Bryring Pty Ltd
38 Hamilton Street
Dapto NSW 2350.

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 4/5/12B.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 January 2005, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 4/5/12C 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 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 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 10 December 1999

- A KRS Design model EMU CH8/A bottle-mounted spirit dispenser of 30 mL capacity.

Variants: approved 10 December 1999

1. Of 15 mL capacity.

Technical Schedule No 4/5/12C describes the pattern and variant 1.

FILING ADVICE

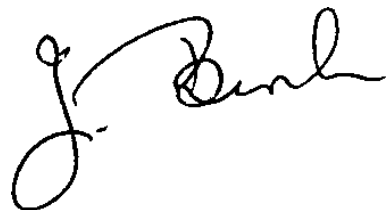
The documentation for this approval comprises:

Certificate of Approval No 4/5/12C dated 16 March 2000

Technical Schedule No 4/5/12C dated 16 March 2000 (incl. Test Procedure)

Figures 1 to 3 dated 16 March 2000

Signed and sealed by a person authorised under Regulation 63 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



TECHNICAL SCHEDULE No 4/5/12C

Pattern: KRS Design Model EMU CH8/A Spirit Dispenser.

Submittor: Bryring Pty Ltd
38 Hamilton Street
Dapto NSW 2350

1. Description of Pattern

The pattern is a KRS Design model EMU CH8/A single-delivery push-button-activated bottle-mounted spirit dispenser (Figure 1) for the measurement of 30 mL of brandy (including cognac and armagnac), gin, rum, vodka, or whisky (whiskey).

The pattern (Figure 2) comprises:

- A removable bottle mounting adaptor, which allows a bottle to be replaced without removing the dispenser from its mounting;
- An upper spirit chamber with sensors for detecting the availability of spirit for deliveries;
- An electronic circuit board for controlling the deliveries;
- A solenoid-operated valve for starting and stopping the delivery;
- A push-button for initiating the delivery;
- A lower chamber for dispensing the prescribed quantity; and
- A digital counter, with key-operated reset, for displaying a maximum of 9999 deliveries before returning to zero.

1.1 Operation

On power-up the instrument performs a functional check, during which a red LED flashes. A green LED will turn on when the instrument is ready for use. Pressing the delivery push-button causes the solenoid-operated valve to open for a pre-determined time allowing 30 mL of spirit to be delivered. During the delivery the green LED flashes until the contents of the lower chamber have been dispensed. The process is electronically-controlled such that a delivery, once started, cannot be stopped until the delivery is complete and a new delivery is not possible unless the upper spirit chamber is completely full.

1.2 Power Supply

The dispenser operates at a nominal voltage of 24 V AC.

1.3 Verification/Certification Provision

Provision is made for verification/certification marks to be applied.

1.4 Markings

The pattern is clearly and permanently marked '30 mL'. In addition, the instrument is clearly marked, either on a permanently attached nameplate or as part of the instrument, with the following information:

Manufacturer's mark, or name written in full	Bryring Pty Ltd/ KRS Design
Serial number of the instrument
Pattern approval mark for the instrument	NSC No 4/5/12C
Quantity mL

1.5 Sealing Provision

Provision is made for sealing of the calibration adjustments by means of the sealing lugs provided on the side of the instrument. Alternatively, one or more destructible adhesive labels may be placed across the join of the instrument body.

2. Description of Variant 1

Of 15 mL capacity.

TEST PROCEDURE

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

Maximum Permissible Error at Verification/Certification

The maximum permissible errors applied at verification/certification are:

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

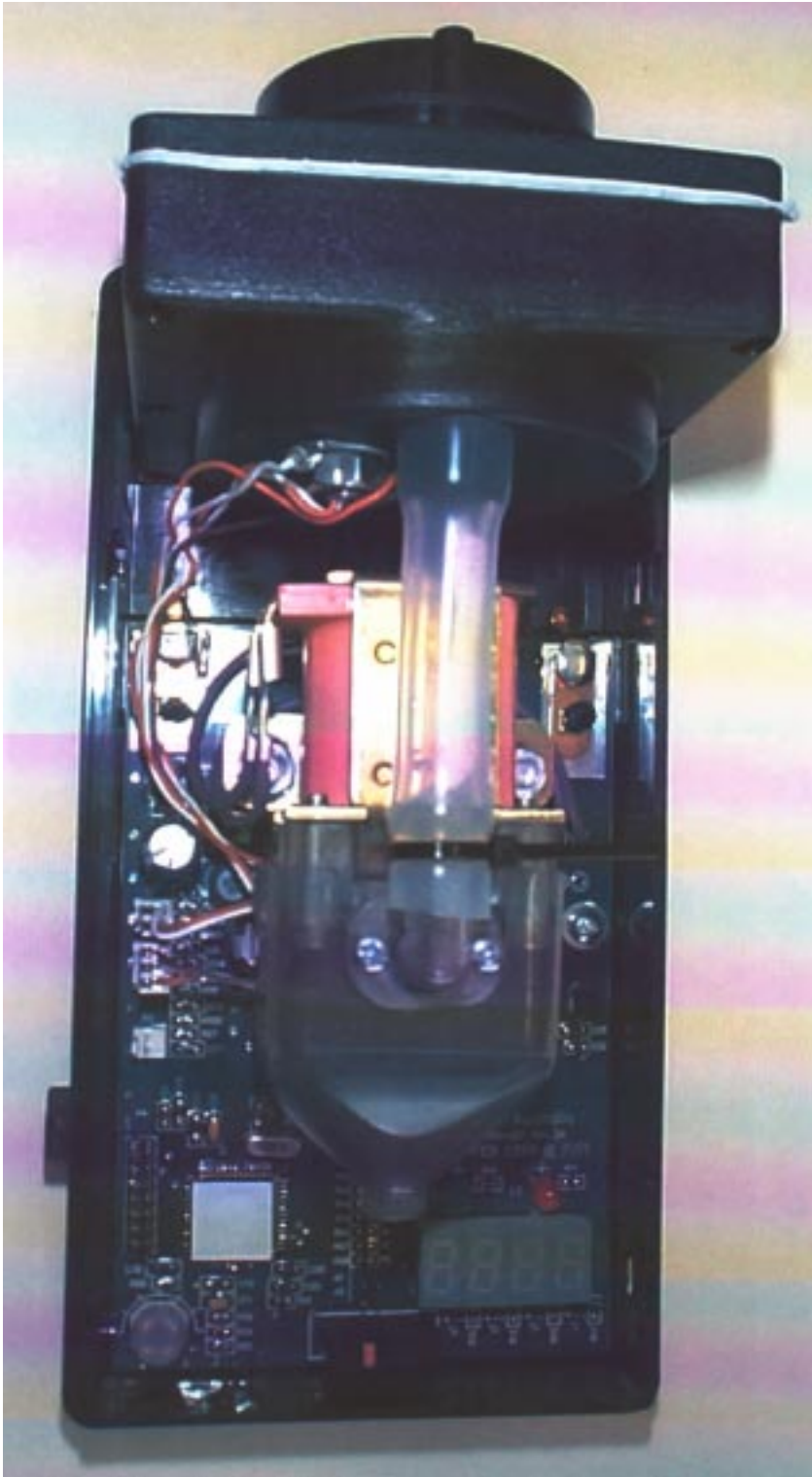
FIGURE 4/5/12C - 1



KRS Design Model EMU CH8/A Spirit Dispenser

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FIGURE 4/5/12C - 2



KRS Design Model EMU CH8/A Spirit Dispenser

FIGURE 4/5/12C - 3

