



Australian Government
**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

**Cancellation
Certificate of
Approval No 5/6S/10**

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 Certificate of Approval
No 5/6S/10 issued 20 January 2000 in respect of the

Sprint Enterprises Model Sentry Remote-storage Spirit Dispenser

submitted by Bevcon Solutions Pty Ltd
 11/10 Victoria Avenue
 Castle Hill NSW 2154

has been cancelled in respect of new instruments as from 1 October 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. H. T.', is located in the bottom right corner of the document.

National Standards Commission



Certificate of Approval

No 5/6S/10

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

Sprint Enterprises Model Sentry Remote-storage Spirit Dispenser

submitted by Bevcon Solutions Pty Ltd
 11/10 Victoria Avenue
 Castle Hill NSW 2154.

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 October 2004, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 5/6S/10 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 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 30 September 1999

- A Sprint Enterprises model Sentry remote-storage spirit dispenser.

Variants: approved 30 September 1999

1. For 30 mL deliveries.
2. For use with a handheld calibration keypad.

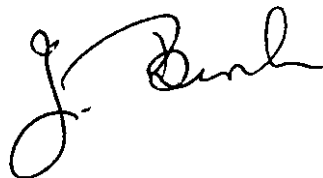
Technical Schedule No 5/6S/10 describes the pattern and variants 1 & 2.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 5/6S/10 dated 20 January 2000
Technical Schedule No 5/6S/10 dated 20 January 2000 (incl. Test Procedure)
Figures 1 to 6 dated 20 January 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.

A handwritten signature in black ink, appearing to be 'J. Burt', is written over a horizontal line.

TECHNICAL SCHEDULE No 5/6S/10

Pattern: Sprint Enterprises Model Sentry Remote-storage Spirit Dispenser.

Submittor: Bevcon Solutions Pty Ltd
11/10 Victoria Avenue
Castle Hill NSW 2154.

1. Description of Pattern

A Sprint Enterprises model Sentry remote-storage spirit dispenser (Figure 1) approved to deliver brandy (including cognac and armagnac), gin, rum, vodka or whisky (whiskey) in quantities of 15 mL.

1.1 The System

The system (Figures 2 and 3) consists of the following:

- (a) A pressurised gas supply, regulated between approximately 175 and 245 kPa, connected to a Bellofram type 1000 pressure transducer that provides the required pressure for the bulk spirit supply tanks.
- (b) Each bulk supply tank is fitted with a low level cut-off switch, approximately 110 mm from the bottom of the tank.
- (c) The pressurised spirit is supplied to a solenoid valve located in the solenoid valve unit and a Dallas model DS 1620 temperature sensor positioned near the inlet of the valve.
- (d) Each solenoid valve is activated using the handheld dispensing gun with up to 12 buttons to select the spirit to be dispensed (Figure 4).
- (e) A low level tank indicator unit (LTC) with LEDs that indicate when the spirit level in the tank is low.
- (f) The temperature/pressure processor unit, in conjunction with the temperature sensor and the pressure transducer, compensates for the effect of ambient temperature.
- (g) A controller unit which shuts off the system when the spirit level is low, and controls the delivery and the purchaser display.
- (h) A liquid crystal display indicator (Figure 5) located in a position clearly visible to the purchaser. The indicator shows the pour size and the type of spirit being dispensed.
- (i) A power supply unit.

1.2 Operation

A prescribed quantity of spirit is delivered when a button on the handheld dispensing gun is pressed. A delivery once started cannot be stopped by the operator and all buttons are rendered inoperative throughout this cycle. A further delivery cannot be started until the timing electronics are reset.

At the commencement of the delivery cycle, which is initiated by pressing a button on the dispensing gun, a solenoid valve is opened allowing pressurised spirit to be dispensed. The solenoid valve is maintained open for a predetermined time corresponding to the prescribed quantity to be delivered.

1.3 Markings

Instruments are marked with the following, together in a prominent position:

Manufacturer's mark, or name written in full	Sprint Enterprises
Serial number of the instrument
Pattern approval mark for the instrument	NSC No 5/6S/10

NOTE: The purchaser's indicator shows the pour size and type of spirit being dispensed.

1.4 Verification/Certification Provision

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

1.5 Sealing Provision

Provision is made for the sealing of the zero and span adjustments on the pressure transducer, as well as the calibration adjustments in the solenoid valve unit.

2. Description of Variants

2.1 Variant 1

With any or all of the buttons on the dispensing gun programmed to dispense 30 mL deliveries.

2.2 Variant 2

For use with a handheld calibration keypad (Figure 6) secured by a seven digit access code.

TEST PROCEDURE

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

Maximum Permissible Error at Verification/Certification

The maximum permissible error applied during a verification/certification test is:

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

1. Multiple Delivery Test

Whilst a delivery is in progress, it should not be possible to commence a new delivery until the initial delivery is completed.

2. Low Level Cut-out Test

At the low level tank indicator unit (LTC) disconnect a supply tank and check that a delivery is not possible from that particular supply tank and that the appropriate LED is illuminated.

FIGURE 5/6S/10 - 1

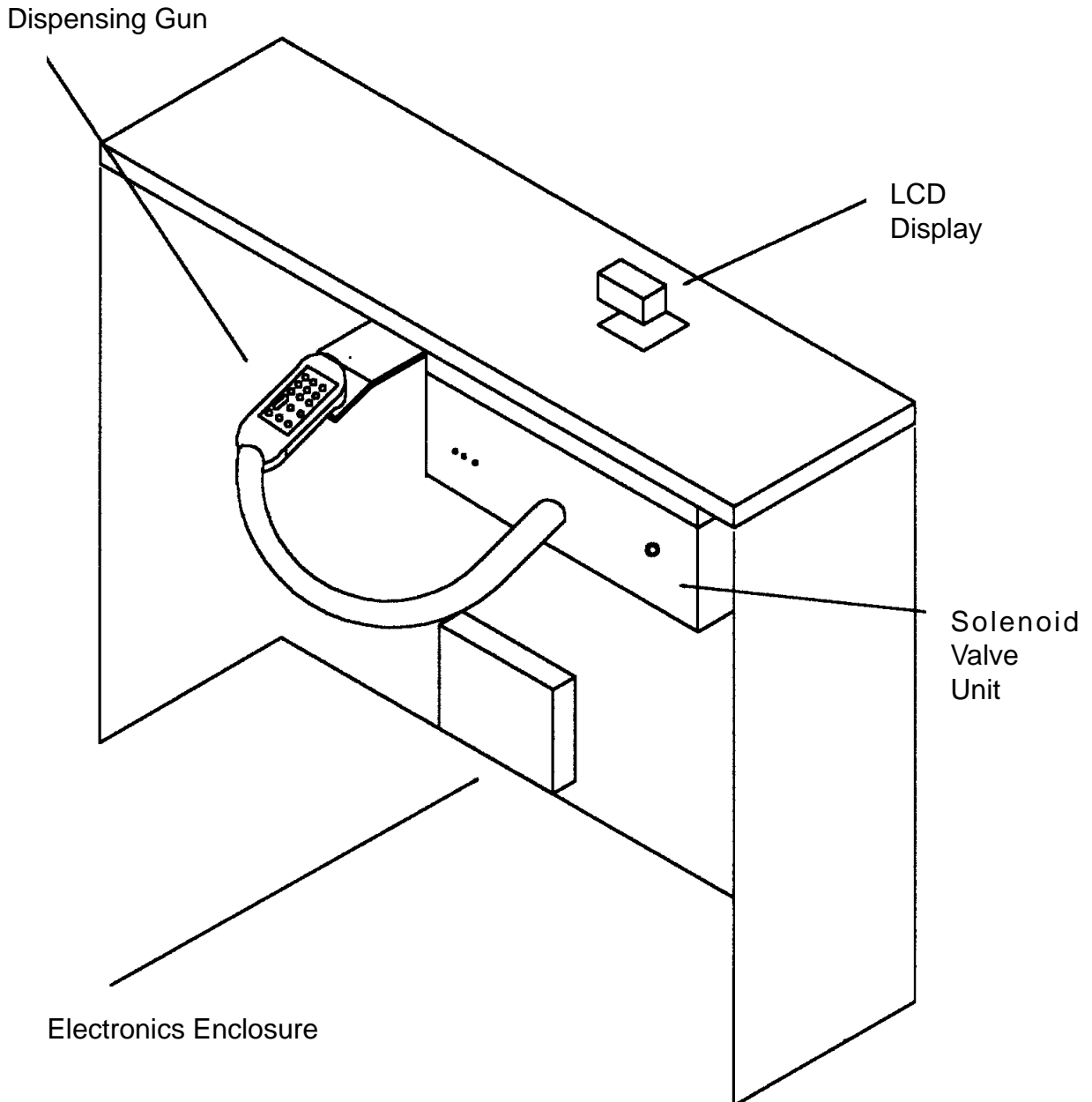


FIGURE 5/6S/10 - 2

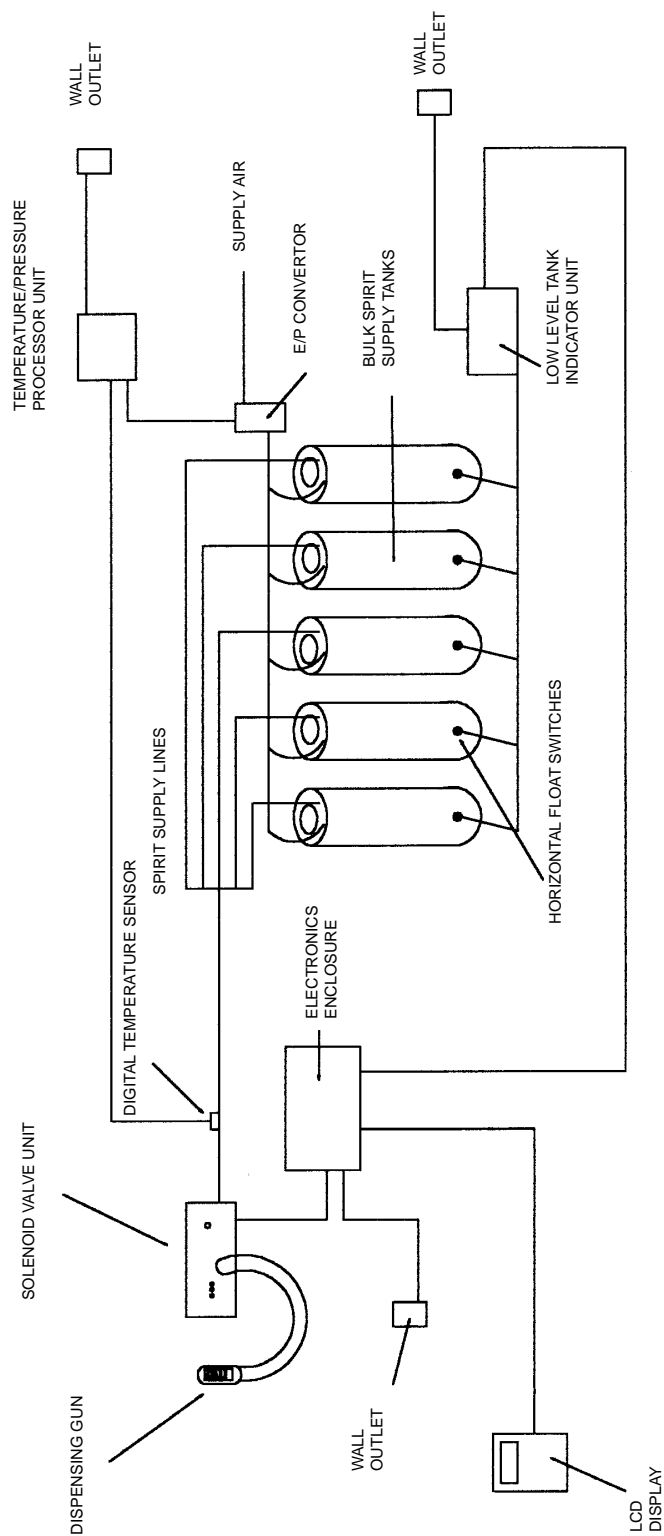
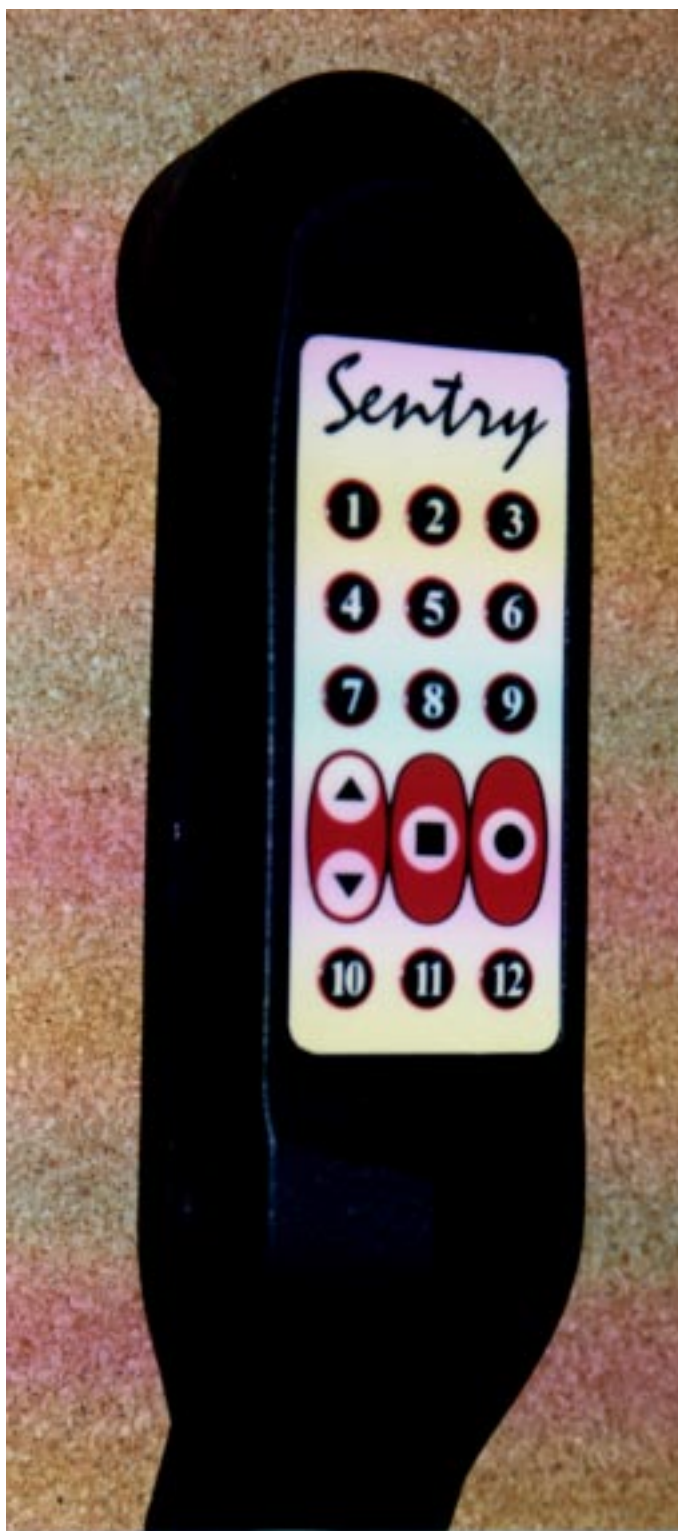


FIGURE 5/6S/10 - 3



FIGURE 5/6S/10 - 4



Handheld Dispensing Gun

FIGURE 5/6S/10 - 5



Liquid Crystal Display Indicator

FIGURE 5/6S/10 - 6



Handheld Calibration Keypad