



National Standards Commission
Cancellation
Certificate of Approval No 4/5/16

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

ITW Model ETN4 Liquor Dispenser

submitted by ITW Fastex New Zealand
7 Charann Place
Avondale Auckland 7
New Zealand

has been cancelled in respect of new instruments as from 1 May 2000.

Instruments which were verified/certified before that date may, with the concurrence of the relevant verifying authority, be submitted for reverification.

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 read 'J. Birch'. The signature is written in a cursive style with a large initial 'J'.

National Standards Commission



Certificate of Approval

No 4/5/16

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

ITW Model ETN4 Liquor Dispenser

submitted by ITW New Zealand Limited
7 Charann Place
Avondale Auckland 7
NEW ZEALAND

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 is subject to review on or after 1 September 1998.
This approval expires in respect of new instruments on 1 September 1999.

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

Instruments purporting to comply with this approval shall be marked NSC No 4/5/16 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.

DESCRIPTIVE ADVICE

Pattern: approved 26 August 1993

. An ITW model ETN4 bottle-mounted liquor dispenser of 15 mL capacity.

Variant: approved 26 August 1993

1. Of 30 mL capacity.

Technical Schedule No 4/5/16 describes the pattern and variant 1.

Variant: approved 12 September 1995

2. With alternative electronics.

Technical Schedule No 4/5/16 Variation No 1 describes variant 2.

Variant: approved 28 November 1995

3. With a remote-storage liquor supply.

Technical Schedule No 4/5/16 Variation No 2 describes variant 3.

FILING ADVICE

Certificate of Approval No 4/5/16 dated 31 October 1995 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 4/5/16 dated 29 March 1996
Technical Schedule No 4/5/16 dated 25 February 1994 (incl. Test Procedure)
Technical Schedule No 4/5/16 Variation No 1 dated 31 October 1995
Technical Schedule No 4/5/16 Variation No 2 dated 29 March 1996
Figures 1 to 3 dated 25 February 1994
Figure 4 dated 29 March 1996

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.





National Standards Commission

TECHNICAL SCHEDULE No 4/5/16

Pattern: ITW Model ETN4 Liquor Dispenser.

Submittor: ITW New Zealand Limited
7 Charann Place
Avondale Auckland 7
NEW ZEALAND

1. Description of Pattern

An ITW model ETN4 single-delivery push-button-activated bottle-mounted dispenser (Figure 1) for the measurement of 15 mL of brandy (including cognac and armagnac), gin, rum, vodka or whisky (whiskey).

It consists of a measuring chamber (Figure 2) with a solenoid-operated internal valving arrangement. The manual push-button, an electronic timing mechanism, and a low liquid level detector in the reservoir above the chamber, control the solenoid to ensure that a delivery, once started, cannot be stopped by the operator until completed and that the next delivery cannot be started until the measuring chamber is full as indicated by the LEDs.

NOTE: The measuring chamber (Figure 2) may be replaced as a complete sealed and verified unit.

1.1 Operation

A removable bottle adaptor with a valve between the measuring chamber and the bottle allows bottles to be replaced without removing the dispenser from its mount. An electronic counter may be fitted which displays up to 999 deliveries.

1.2 Marking

The displacement spacer and the measuring chamber of the instrument are clearly and permanently marked '15 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 name or mark
Serial number
NSC approval number
Quantity

NSC No 4/5/16

1.3 Verification/Certification Provision

Provision is made for verification/certification marks to be applied to both the main body and to the removeable measuring chamber.

1.4 Sealing Provision

Provision is made for sealing of the calibration adjustments by sealing the flat disc and sealing lug provided on the underside of the measuring chamber (Figure 3), either by means of a destructive label or by wire and seal.

2. Description of Variant 1

Of 30 mL capacity.

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 applicable at verification/certification are:

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



National Standards Commission

TECHNICAL SCHEDULE No 4/5/16

VARIATION No 1

Pattern: ITW Model ETN4 Liquor Dispenser.

Submittor: ITW New Zealand Limited
7 Charann Place
Avondale Auckland 7
NEW ZEALAND

1. Description of Variant 2

With alternative electronics.

Instruments may be identified by having a single tri-colour LED to indicate the instrument's operational status.



National Standards Commission

TECHNICAL SCHEDULE No 4/5/16

VARIATION No 2

Pattern: ITW Model ETN4 Liquor Dispenser.

Submitter: ITW New Zealand Limited
7 Charann Place
Avondale Auckland 7
NEW ZEALAND

1. Description of Variant 3

With the removeable bottle adaptor described for the pattern replaced by another adaptor (Figure 4) which allows liquor to be supplied from a remote storage tank.

1.1 The System

Liquor from the remote tank is supplied to the adaptor through a solenoid-operated valve. The valve is controlled by three level sensing probes which ensure that the reservoir above the measuring chamber is filled with liquor before a delivery commences.



National Standards Commission

Notification of Change

Certificate of Approval No 4/5/16

Change No 1

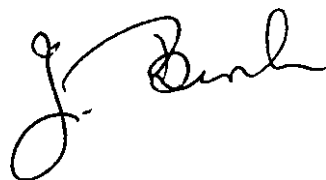
The following change is made to the approval documentation for the

ITW Model ETN4 Liquor Dispenser

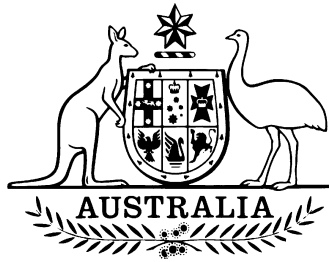
submitted by ITW New Zealand Limited
7 Charann Place
Avondale Auckland 7
NEW ZEALAND.

In Certificate of Approval No 4/5/16 dated 29 April 1996, the Condition of Approval referring to the expiry of the approval should be deleted.

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.



4/5/16
28 September 2001



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Notification of Change

Certificate of Approval No 4/5/16

Change No 2

The following change is made to the approval documentation for the

ITW Model ETN4 Liquor Dispenser

submitted by ITW Fastex New Zealand
7 Charann Place
Avondale Auckland 7
New Zealand.

In Technical Schedule No 4/5/16 dated 25 February 1994, clause **1. Description of Pattern** should be amended by adding the following:

“Instruments may be fitted with a wire from the solenoid coil connection on the circuit board to allow transfer of pulse information to an area controller. The controller converts the pulse information into programmed information for downloading to a bar management system.”

NOTE: This approval was cancelled in respect of new instruments on 1 May 2000.

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.



FIGURE 4/5/16 - 1



ITW Model ETN4 Liquor Dispenser

FIGURE 4/5/16 - 2



Showing Measuring Chamber

FIGURE 4/5/16 - 3



Showing a Method of Sealing

FIGURE 4/5/16 - 4



With Remote Storage Adaptor