



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Cancellation Certificate of Approval No 6/4C/34A

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

Hytech Model APO25 (Version 5.2) Weighing Instrument

submitted by Hytech Scales Pty Ltd
 15-21 Bellevue Crescent
 Preston VIC 3072

has been cancelled in respect of new instruments as from 1 May 2001.

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

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.



National Standards Commission



Certificate of Approval

No 6/4C/34A

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

Hytech Model APO25 (Version 5.2) Weighing Instrument

submitted by Hytech Scales Pty Ltd
15-21 Bellevue Crescent
Preston VIC 3072.

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 1/1/97.
This approval expires in respect of new instruments on 1/1/98.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/34A 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.

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

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

DESCRIPTIVE ADVICE

Pattern: approved 12/12/91

- A Hytech model APO25 (Version 5.2) multi-interval self-indicating weighing instrument with a verification scale interval (e_1) of 0.001 kg up to 2 kg and a verification scale interval (e_2) of 0.010 kg from 2 kg up to the maximum capacity of 25 kg.

Technical Schedule No 6/4C/34A describes the pattern.

Variants: approved 24/12/93

1. In an alternative housing and known as a model APO25.
2. Model APO25 multi-interval instruments of certain maximum capacities.
3. Model APO25 multi-interval instrument with a verification scale interval (e_1) of 0.005 kg up to 3 kg and a verification scale interval (e_2) of 0.010 kg from 3 kg up to the maximum capacity of 25 kg.
4. Model APO25 single-interval instrument of 25 kg maximum capacity.

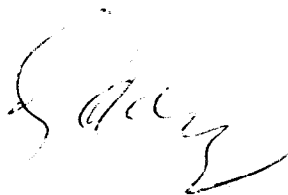
Technical Schedule No 6/4C/34A Variation No 1 describes variants 1 to 4.

FILING ADVICE

Certificate of Approval No 6/4C/34A dated 23/3/92 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4C/34A dated 11/3/94
Technical Schedule No 6/4C/34A dated 23/3/92 (incl. Test Procedure)
Technical Schedule No 6/4C/34A Variation No 1 dated 11/3/94
Figures 1 and 2 dated 23/3/92
Figures 3 and 4 dated 11/3/94

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 6/4C/34A

Pattern: Hytech Model APO25 (Version 5.2) Weighing Instrument.

Submittor: Hytech Scales Pty Ltd
15 Bellevue Crescent
Preston VIC 3072.

1. Description of Pattern

A Hytech model APO25 (Version 5.2) dual-interval self-indicating weighing instrument (Figure 1) with a verification scale interval of 0.001 kg up to 2 kg and with a verification scale interval of 0.010 kg from 2 kg up to the maximum capacity of 25 kg.

Instruments are fitted with integral printers (for printing receipts and postage labels), and may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

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.

1.2 Display Check

A display check is initiated whenever power is applied.

1.3 Levelling

The instrument is provided with 5 feet, 2 of which are adjustable.

Instruments need not be fitted with a levelling indicator as they satisfy the accuracy requirements relating to tilt, as specified in the Commission's Document 100.

1.4 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

1.5 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number #	
NSC approval number	NSC No 6/4C/34A
Accuracy class	III
Low range	
Maximum capacity	Max kg *
Verification scale interval	e = d = kg *
High range	
Maximum capacity	Max kg *
Verification scale interval	e = d = kg *
Minimum capacity	Min kg *
Special temperature limits	5°C - 40°C

Alternatively, the serial number may be permanently stored in the instrument memory and displayed as part of the Display Check (refer cl. 1.2).

* Repeated adjacent to each reading face.

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 for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within $\pm 0.25e$ at no load, are:

- $\pm 0.5e$ for loads from 0 to $500e$;
- $\pm 1.0e$ for loads over $500e$ up to $2000e$; and
- $\pm 1.5e$ for loads over $2000e$.



National Standards Commission

TECHNICAL SCHEDULE No 6/4C/34A

VARIATION No 1

Pattern: Hytech Model APO25 (Version 5.2) Weighing Instrument.

Submittor: Hytech Scales Pty Ltd
15-21 Bellevue Crescent
Preston VIC 3072.

1. Description of Variants

1.1 Variant 1

The pattern in an alternative housing and known as a model APO25 (Figures 3 and 4).

This is a multi-interval instrument with a verification scale interval (e_1) of 0.001 kg up to 2 kg and a verification scale interval (e_2) of 0.010 kg from 2 kg up to the maximum capacity of 25 kg.

1.2 Variant 2

The APO25 (variant 1) as multi-interval instruments of various maximum capacities, viz. 6 kg, 10 kg and 16 kg. Instruments have a verification scale interval (e_1) of 0.001 kg up to 2 kg and a verification scale interval (e_2) of 0.010 kg from 2 kg up to the maximum capacity.

1.3 Variant 3

The APO25 (variant 1) as a multi-interval instrument with a verification scale interval (e_1) of 0.005 kg up to 3 kg and a verification scale interval (e_2) of 0.010 kg from 3 kg up to the maximum capacity of 25 kg.

1.4 Variant 4

The APO25 (variant 1) as a single-interval instrument of 25 kg maximum capacity with a verification scale interval of 0.010 kg.

NOTIFICATION OF CHANGE

The following changes are made to Technical Schedule No 6/4C/34A dated 23/3/92.

1. In clause 1. **Description of Pattern**, the first paragraph is replaced by the following:

A Hytech model APO25 (Version 5.2) multi-interval self-indicating weighing instrument (Figure 1) with a verification scale interval (e_1) of 0.001 kg up to 2 kg and a verification scale interval (e_2) of 0.010 kg from 2 kg up to the maximum capacity of 25 kg.

2. Clause 1.1 **Zero** is replaced by the following:

Zero is automatically corrected to within $\pm 0.25e_1$ whenever power is applied and whenever the instrument comes to rest within $0.5e_1$ of zero.

3. In the TEST PROCEDURE, the following should be added:

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



National Standards Commission

Notification of Change

Certificate of Approval No 6/4C/34A

Change No 1

The following change is made to the approval documentation for the

Hytech Model APO25 (Version 5.2) Weighing Instrument

submitted by Hytech Scales Pty Ltd
15-21 Bellevue Crescent
Preston VIC 3072.

In Certificate of Approval No 6/4C/34A dated 11 March 1994, 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.

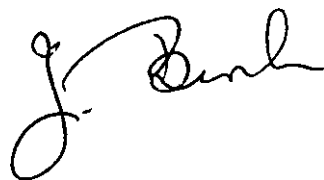
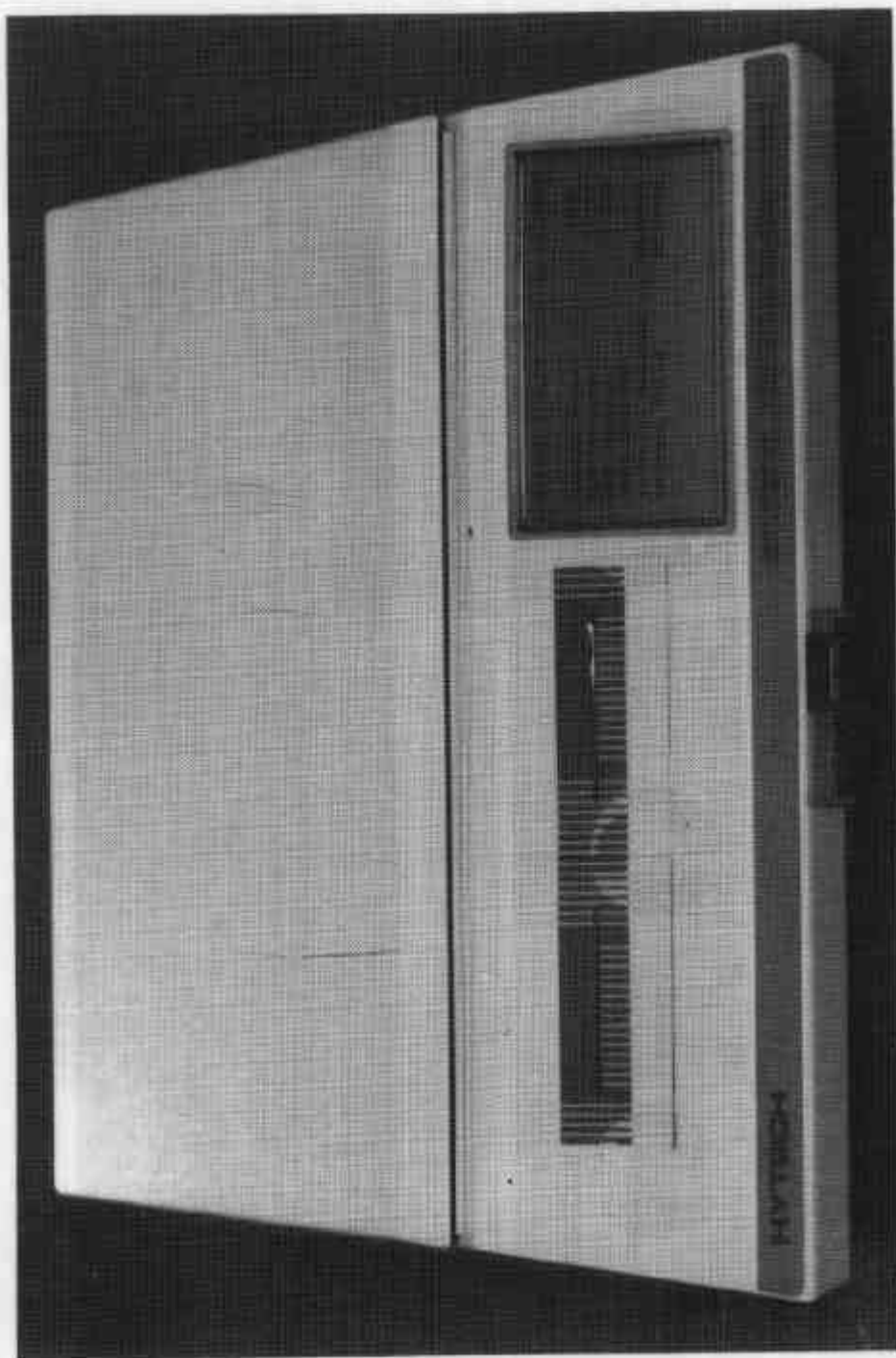
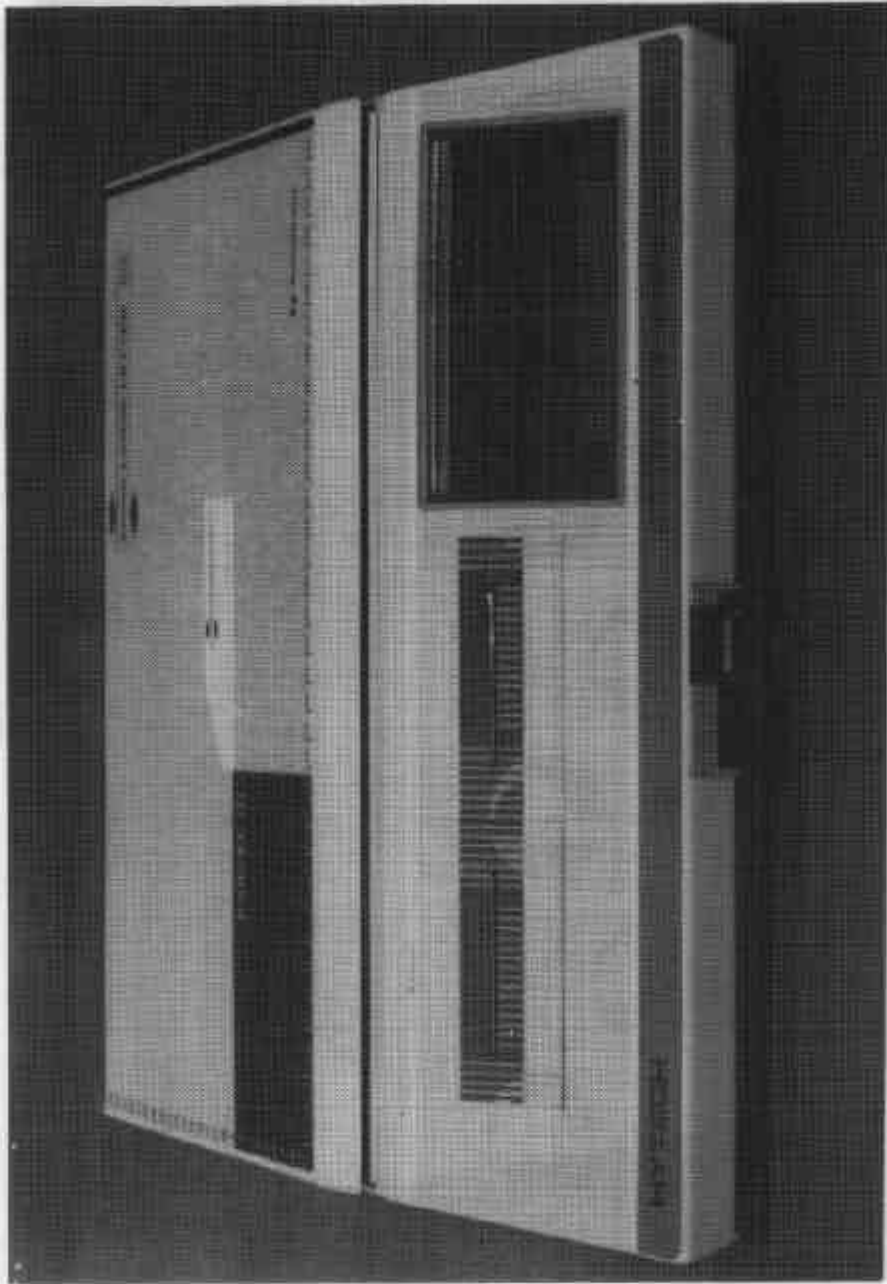


FIGURE 6/4C/34A - 1



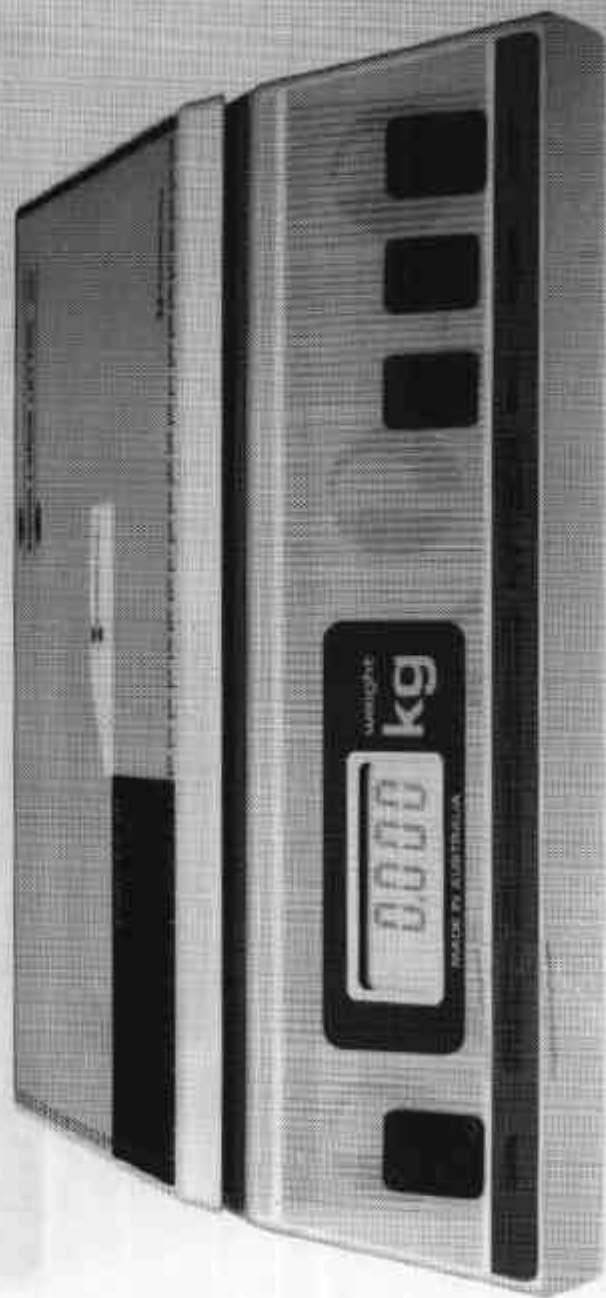
Hytech Model APO25 (Version 5.2) Weighing Instrument

FIGURE 6/4C/34A - 2



With Indicator Showing Operating Display

FIGURE 6/4C/34A - 3



Hytech Model APO25 - Vendor's Side

FIGURE 6/4C/34A - 4



Model APO25 - Purchaser's Side