

National Standards Commission



Certificate of Approval

No 6/4C/83

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

Spectra-Physics Model 960LS Weighing Instrument

submitted by Spectra-Physics Pty Ltd
25 Research Drive
Croydon VIC 3136.

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 1/11/98.
This approval expires in respect of new instruments on 1/11/99.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/83 and only by persons authorised by the submittor.

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

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 4/10/93

- A Spectra-Physics model 960LS self-indicating weighing instrument of 15 kg maximum capacity.

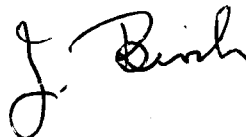
Technical Schedule No 6/4C/83 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/83 dated 1/12/93
Technical Schedule No 6/4C/83 dated 1/12/93 (incl. Test Procedure)
Figures 1 and 2 dated 1/12/93

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/83

Pattern: Spectra-Physics Model 960LS Weighing Instrument.

Submittor: Spectra-Physics Pty Ltd
25 Research Drive
Croydon VIC 3136.

1. Description of Pattern

A Spectra-Physics model 960LS self-indicating weighing instrument (Figure 1) of 15 kg maximum capacity with a verification scale interval of 0.005 kg, and with an inbuilt bar code scanning device. The instrument may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

Instruments are fitted with a model 960RD remote display (Figure 2).

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e$ whenever the instrument comes to rest within $0.5e$ of zero.

The zero button is located under the lift-up flap located adjacent to the weighing platter.

1.2 Display Check

A display check is initiated whenever power is applied.

1.3 Scanner

The instrument is fitted with an inbuilt laser scanner for reading bar codes.

1.4 Verification/Certification Provision

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

1.5 Sealing Provision

Provision is made for the instrument to be sealed by means of a sealing screw, to prevent access to the internal calibration switches located under a panel under the lift-up flap located adjacent to the weighing platter.

1.6 Markings

The instrument is marked with the following data, together in one location under the lift-up flap located adjacent to the weighing platter.

Manufacturer's name or mark

Serial number #

NSC approval number

Accuracy class

Maximum capacity

Minimum capacity

Verification scale interval

Special temperature limits

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III

Max..... kg *

Min kg *

e = kg *

10°C/40°C

This marking may be in a separate location adjacent to the other markings.

* These markings are repeated close 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

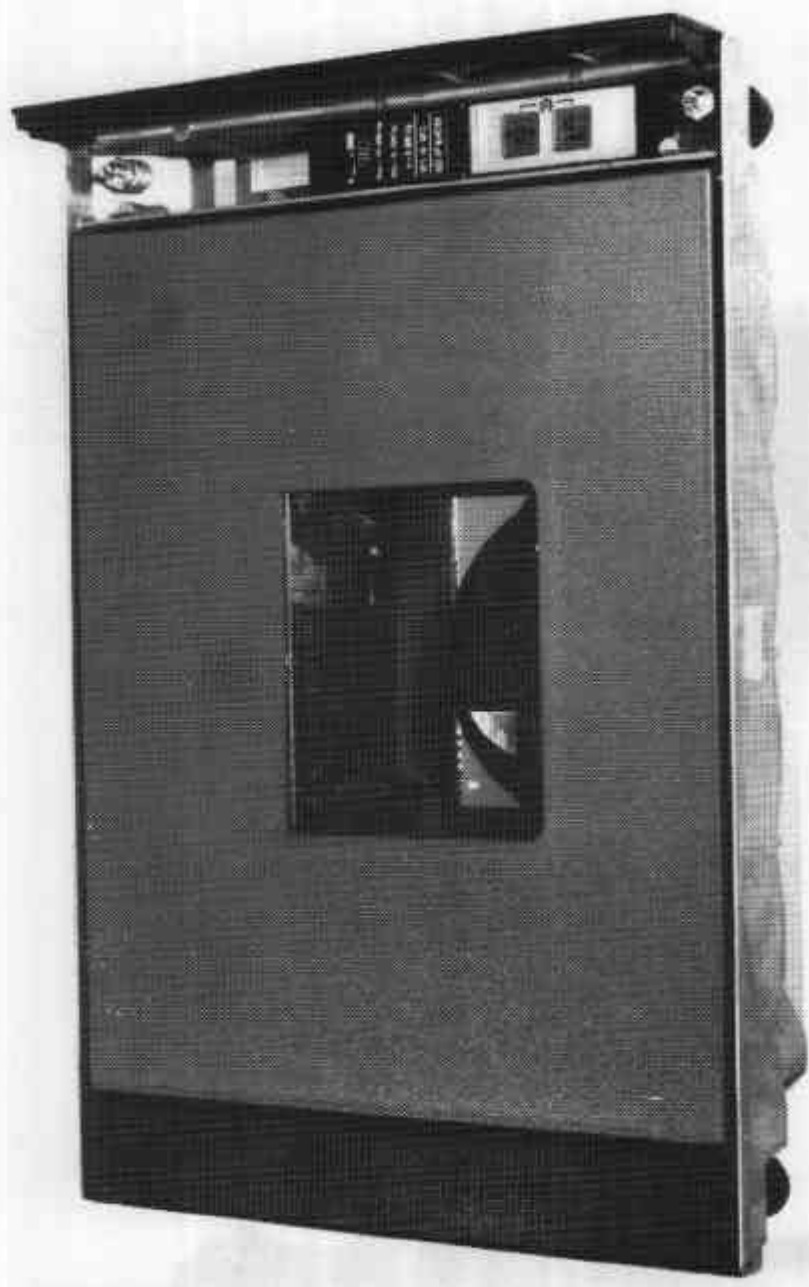
The maximum permissible errors for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within $\pm 0.25e$ at no load, are:

$\pm 0.5e$ for loads from 0 to $500e$;

$\pm 1.0e$ for loads over $500e$ up to $2000e$; and

$\pm 1.5e$ for loads over $2000e$.

FIGURE 6/4C/83 - 1



Spectra-Physics Model 960LS Weighing Instrument

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FIGURE 6/4C/83 - 2



Spectra-Physics Model 960RD Remote Display