National Standards Commission

Certificate of Approval

No 2/1/9A

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

GER Model Loto/St Area Measuring Instrument

submitted by Lovel Meehan Stevens Pty Ltd
Benalla Road
Yarrawonga VIC 3730.

This Certificate is issued upon completion of a review of NSC approval No 2/1/9.

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 2000.
This approval expires in respect of new instruments on 1 September 2001.

Instruments purporting to comply with this approval shall be marked NSC No 2/1/9A and only by persons authorised by the submittor.

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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 31 August 1995

- A GER model Loto/St area measuring instrument for measuring the area of opaque sheets of leather of up to 999 dm^2. Also known as models Loto/Soft and Loto/Soft-R.

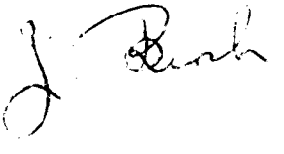
Technical Schedule No 2/1/9A describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 2/1/9A dated 11 March 1996
Technical Schedule No 2/1/9A dated 11 March 1996 (incl. Test Procedure)
Figures 1 and 2 dated 11 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 2/1/9A

Pattern: GER Model Loto/St Area Measuring Instrument

Submittor: Lovel Meehan Stevens Pty Ltd
Benalla Road
Yarrawonga VIC 3730.

1. Description of Pattern

The GER model Loto/St (Figures 1 and 2) is a dual-range instrument for measuring the area of opaque sheets of leather.

Instruments may be as shown in Figure 1, or in alternative housings, including with a return conveyor, and known as models Loto/Soft and Loto/Soft-R.

1.1 Measuring System

The instrument may be used with a maximum measuring area of 999 dm^2 with a scale interval of 1 dm^2 or with a maximum measuring area of 99.9 dm^2 with a scale interval of 0.1 dm^2.

The range is selected at the keyboard before measuring commences and remains in that range until the alternate range is selected. The range in use is indicated by the decimal point being illuminated or not, as appropriate.

1.2 Operation/Construction

The leather is placed between two clear rotating drums. The upper drum has a number of light emitting diodes (LEDs) and the lower drum has a corresponding number of photocells aligned with the LEDs.

The keyboard/printer may be located as shown in Figure 1, or on the right-hand side of the framework.

1.3 Units

The instrument may be set at the keyboard to measure in either SI units (dm^2) or in imperial units (ft^2) and remains set until the alternate units are selected. The selection of the units in use is indicated by the appropriate LED being illuminated.

The use of imperial units is only for export use, and a notice to this effect is located adjacent to the display.

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1.4 Test Facilities

The display unit may be tested via the keyboard. The LEDs and photocells are automatically tested whenever power is applied and after each measurement.

1.5 Stamper

The instrument may stamp the leather with the area determined.

1.6 Printers

The instrument may be provided with a ticket printer (Figure 1) to provide a printout of the areas of individual sheets, and also a printout of the total of a number of measurements.

A label printer for individual measurements may also be fitted.

1.7 Marking

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

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 2/1/9A
For each range:	
Maximum area	..... dm^2
Minimum area	..... dm^2
Scale interval	..... dm^2

In addition, adjacent to the LED indicating that the instrument is set to measure in 'ft^2' units, a notice is provided stating FOR EXPORT USE ONLY, or similar wording.

A notice clearly visible to the operator is marked DO NOT PLACE STRAIGHT EDGES PARALLEL TO MACHINE SIDES, or similar wording.

1.8 Verification/Certification Provision

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

1.9 Sealing

Provision is made for sealing the casing of the indicator and the support arm of each measuring wheel.

TEST PROCEDURE

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

Instruments shall be tested for single-measurement error and mean error.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors applied during a verification/certification test are:

(a) Single-measurement error

±1 dm^2 for templets not exceeding 25 dm^2; and

±(1 dm^2 + 1 dm^2 for each additional 50 dm^2 or part thereof) for templets exceeding 25 dm^2.

(b) Mean error

The mean of 20 measurements shall not differ from the denominated value of the templet by more than one-half the maximum permissible error specified in (a) above.

NOTE: The test templets shall have values which are an integral number of square decimetres (dm^2).

FIGURE 2/1/9A - 1

GER Model Loto/St Area Measuring Instrument

FIGURE 2/1/9A - 2

Showing Display Unit