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CERTIFICATE OF APPROVAL No 6/4C/27

VARIATION No 1

CANCELLED

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This is to certify that the following modification of the patterns of the

Sartorius Weighing Instrument Model 2354 and Others

approved in Certificate No 6/4C/27 dated 4 August 1978,

submitted by Selbys Scientific Ltd,
61-65 Epping Road,
North Ryde, New South Wales, 2113,

has been approved under the Weights and Measures (Patterns of Instruments)
Regulations as being suitable for use for trade.

Date of Approval: 9 August 1978

The approved modification, described in Technical Schedule No 6/4C/27 -
Variation No 1 and in drawings and specifications lodged with the Commission,
provides for the optical-projection weight scale illuminated from an external
source.

This approval is subject to review on or after 1 January 1983.

All instruments conforming to this approval shall be marked with the
approval number "NSC No 6/4C/27".

Signed

Acting Executive Officer



CANCELLED

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE NO 6/4C/27

Pattern: Sartorius Weighing Instrument Models 2354 and Others

Submittor: Selbys Scientific Ltd,
61-65 Epping Road,
North Ryde, New South Wales, 2113.

Date of Approval: 21 December 1977

All instruments conforming to this approval shall be marked "NSC No 6/4C/27".

Description:

The pattern (see Figure 1) is a partially self-indicating weighing instrument of capacity 999,9 grams by 0,1-gram scale intervals (e).*

The instrument is a single-pan beam balance with the load receptor and four removable substitution weights of 100, 200, 400 and 800 grams, balanced by a fixed load (see Figures 2 and 3). During weighing, the beam loading is maintained nearly constant by the removal of the substitution weights in 100-g steps to 900 g. The value of the substitution weights removed from the beam is displayed in 100-g steps on a flash dial prefixing an optically projected scale of 99-g capacity by 1-g scale intervals.

The complementary reading device of capacity 0,99 g by 0,01-g increments (d_d) allows the operator to manually adjust the position of the 99-g scale so as to indicate in 0,01-g increments the distance between the index (pointer) and the 1-g scale mark with an accuracy greater than that of visual interpolation.

A knob on the side of the instrument allows up to 100 g of tare to be applied to the beam through a spring resistant. When tare is selected a "flag" marked "Tare" is displayed. The flag is not visible until tare is selected.

* Verification scale interval $e = 0,1$ g; the scale interval of the last digit of the complementary reading device, which is differentiated from the other digits, is not significant to verification.

A knob-operated zero adjustment is provided at the base of the instrument, which is also provided with a level indicator and three feet, two of which are adjustable. Adjacent to the level indicator is a notice advising that the instrument must be level when in use.

A locking device is accessible on the side of the instrument. The cover is sealed on the instrument by a lead-and-wire seal as the instrument is too fragile for a stamping-plug seal.

The instrument is marked:

(a) adjacent to the weight indicator —

(II)

Max	=	999,9 g
Min	=	5 g
e	=	0,1 g
d ₁	=	0,01 g
T	=	+ 100 g, and

(b) "not for retail counter use".

The approval includes the Sartorius weighing instrument Models 2351 and 2353 of the following capacities and graduation values respectively, which will be appropriately marked adjacent to the weight reading face:

(II)

Max	=	6999 g
Min	=	50 g
e	=	1 g
d ₁	=	0,1 g
T	=	+ 1000 g

(II)

Max	=	2999 g
Min	=	50 g
e	=	1 g
d ₁	=	0,1 g
T	=	+ 1000 g

Special Tests:

Level Sensitivity

1. When the instrument is tilted to a slope of 1 in 500 the bubble in the level indicator should move at least 2 mm.
2. When the instrument is tilted so that the bubble in the level indicator moves 2 mm, and when zero is reset in the tilted position, the instrument should satisfy the weighing-accuracy

specification*, that is, $\pm \frac{1}{2}$ graduation for the first 5000 graduations and ± 1 graduation for graduations over 5000.

Tare Indicator

The "flag" indicating tare has been selected should be fully visible when any tare value greater than 0,25 of a verification graduation (e) is selected.

* The weighing-accuracy specification refers to the verification scale interval $e = 0,1$ gram; the scale interval of the last digit of the complementary reading device, which is differentiated from the other digits, is not significant to verification.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4C/27

VARIATION No 1

Pattern: Sartorius Weighing Instrument Model 2354 and Others

Submittor: Selbys Scientific Ltd,
61-65 Epping Road,
North Ryde, New South Wales, 2113.

Date of Approval of Variation: 9 August 1978

The modification described in this Schedule applies to the patterns described in Technical Schedule No 6/4C/27 dated 4 August 1978.

All instruments conforming to this approval shall be marked "NSC No 6/4C/27".

Description:

The approved modification provides for the optical-projection weight scale illuminated by means of a glass-fibre optical light guide from a light source contained within a flameproof enclosure (see Figure 4).

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FIGURE 6/4C/27 - 1

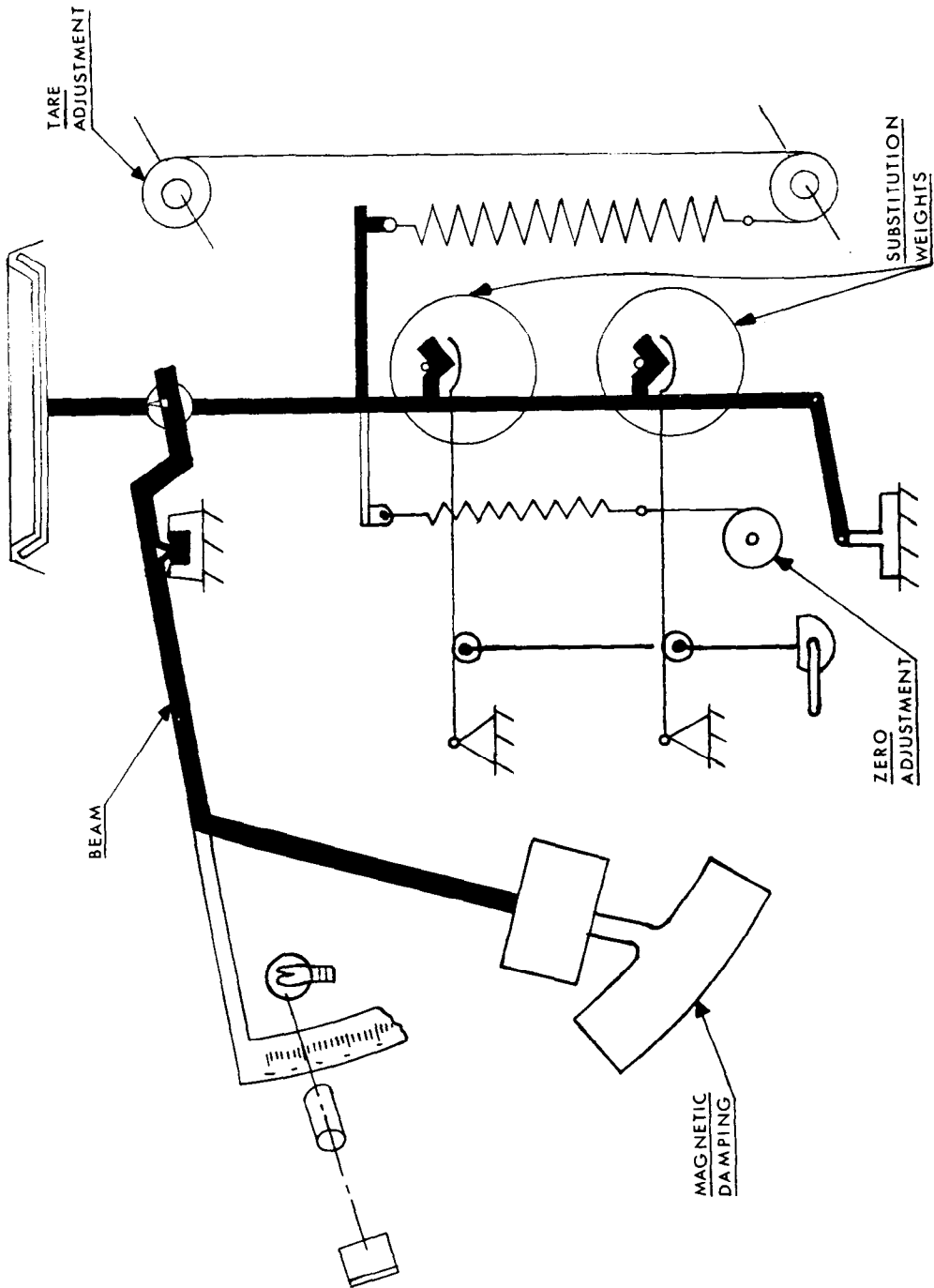


Sartorius Model 2354

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FIGURE 6/4C/27 - 2

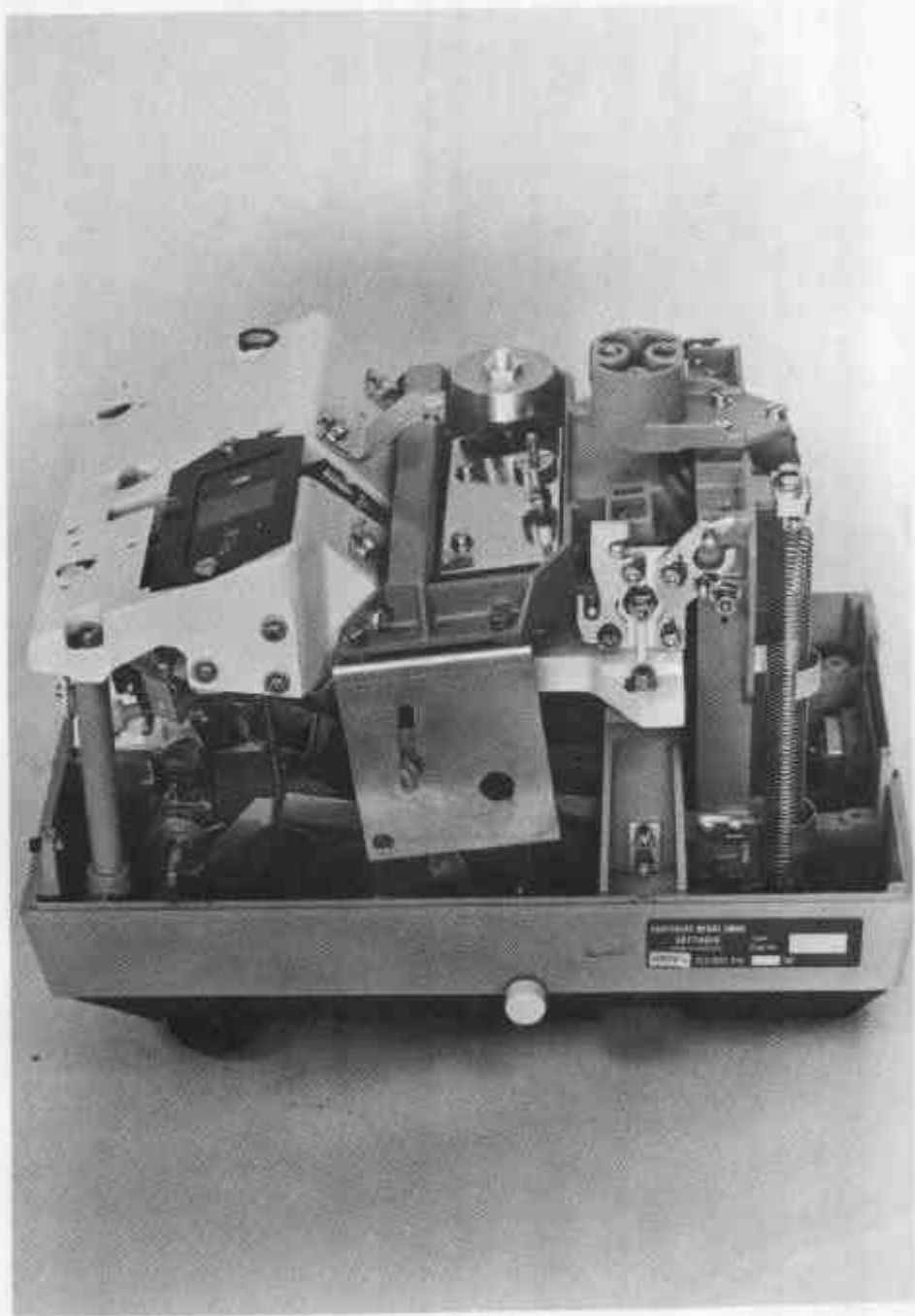


Sartorius Model 2354 — Schematic Drawing

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FIGURE 6/4C/27 - 3



Sartorius Model 2354

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FIGURE 6/4C/27 - 4



Sartorius 2354 with a Glass-fibre Light Source

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