



Australian Government  
Department of Industry,  
Science and Resources

**National  
Measurement  
Institute**

36 Bradfield Road, West Lindfield NSW 2070

**Certificate of Approval  
NMI 6/4C/334**

Issued by the Chief Metrologist under Regulation 60  
of the  
*National Measurement Regulations 1999*

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

TScale model S29-6k-MR Weighing Instrument

submitted by GaP Solutions Pty Ltd  
26 Woodlands Tce  
Edwardstown SA 5039

**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.

This approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated October 2015.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – certificate issued	22/11/24

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4C/334' and only by persons authorised by the submitter.

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 National Measurement Institute (NMI) 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 document NMI P 106.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificates of Approval No S1/0B.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.



**Darryl Hines**  
Manager  
Policy and Regulatory Services

TECHNICAL SCHEDULE No 6/4C/334

**1. Description of Pattern**

**approved on 22/11/24**

A TScale model S29-6k-MR class  $\text{III}$  non-automatic self-indicating multi-interval weighing instrument (FIGURE 1a) with a verification scale interval ( $e_1$ ) of 0.001 kg up to 3 kg and a verification scale interval ( $e_2$ ) of 0.002 kg from 3 kg up to the maximum capacity of 6 kg, and with a minimum capacity of 0.02 kg.

The instrument may be fitted with a single 7-segment LCD display.

The instrument may be fitted with an optional 7-segment LCD customer display integrated into the body of the instrument (FIGURE 1b).

The instrument shall be marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording) unless both operator and customer displays are present.

Power for the TScale S29-6k-MR instrument may be supplied by either:

- an AC/DC mains adaptor; or/and
- an internal rechargeable 6 V DC sealed lead-acid battery.

Note: The AC/DC mains adaptor supplied for the instrument was FLYPOWER model PS06H120K0500AD power supply (output 12 V DC, 0.5 A) – the submitter should be consulted regarding the acceptability of alternative power supply units.

**1.1 Zero**

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

A zero-tracking device may be fitted.

**1.2 Tare**

A semi-automatic subtractive tare device may be fitted. The maximum tare capacity is 5.998 kg.

**1.3 Display Check**

A display check is initiated whenever power is applied.

**1.4 Levelling**

The instrument is provided with adjustable feet and a level indicator.

The instrument is to be used in a level condition as indicated by the level indicator.

**1.5 Alternative Unit**

Instruments may be operated displaying kilograms (kg) or grams (g) by pressing the TARE key and ZERO key in the weighing mode.

**1.6 Verification Provision**

Provision is made for the application of a verification mark.

## 1.7 Sealing Provision

Provision is made for the calibration to be sealed by means of following three parts.

- Place a destructible label over an ABS slice which covering the access hole to the calibration switch (inside the battery compartment) underneath the instrument as shown in FIGURE 2.
- Seal the battery compartment screw with a self-destructible label (FIGURE 2, B”),
- Seal the instrument housing by applying the wire through holes of two of the assembly screws of the instrument housing and terminate with a plastic seal (FIGURE 2, A”).

## 1.8 Software


The application software is designated 1.xx (where xx can be 00 to 99), and the legally relevant software is designated 1.10.

The application software version and number can be seen in the switch-on display sequence (when the power is first applied to the instrument).

The legally relevant software version and number can be accessed by pressing the ‘ZERO’ and ‘TARE’ keys simultaneously and then releasing the keys during the switch-on display sequence.

## 1.9 Descriptive Markings and Notices

(a) Instruments carry the following markings:

Manufacturer’s mark, or name written in full	TScale Electronics MFG (KUNSHAN) Co., Ltd
Name or mark of manufacturer’s agent	GaP Solutions Pty Ltd
Indication of accuracy class	
Pattern approval mark for the instrument	NMI 6/4C/334
Maximum capacity	Max ...../ ..... g or kg #1
Minimum capacity	Min..... ..... g or kg #1
Verification scale interval	e = ..... g or kg #1
Maximum subtractive tare	T = - ..... g or kg #2
Serial number of the instrument	.....

#1 These markings are shown near the display of the result.

#2 This marking is required if T is not equal to Max.

(b) In addition, instruments shall carry a notice stating NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording unless two displays are present.

## TEST PROCEDURE No 6/4C/344

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

The instrument shall not be adjusted to anything other than as close as practical to zero error, even when these values are within the maximum permissible errors.

### **Maximum Permissible Errors**

The maximum permissible errors are specified in the *National Trade Measurement Regulations 2009*.

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

FIGURE 6/4C/334 – 1

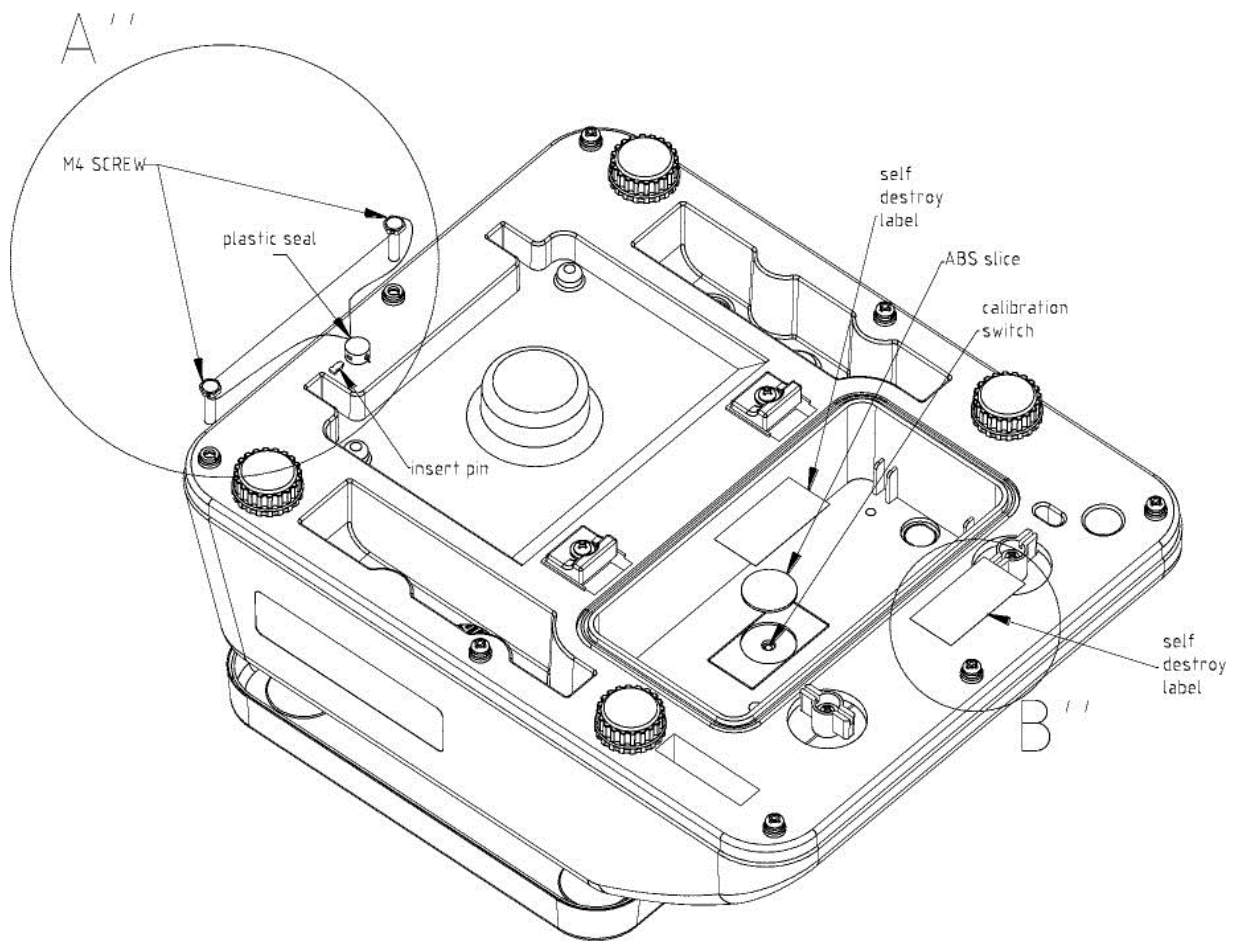


(a) TScale model S29-6k-MR (Pattern)



(b) TScale model S29-6k-MR with customer display

FIGURE 6/4C/334 – 2



Typical sealing method

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