

# National Standards Commission



## Supplementary Certificate of Approval

**No S193A**

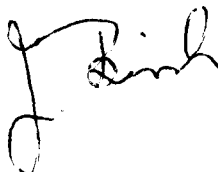
Issued under Regulation 9  
of the  
National Measurement (Patterns of Measuring Instruments) Regulations

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

Gedge Systems Model GS1650 Mk3 Digital Indicator

submitted by Gedge Systems  
488 Church Street  
Richmond VIC 3121.

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.



### CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/5/96.

This approval expires in respect of new instruments on 1/5/97.

Instruments purporting to comply with this approval shall be marked NSC No S193A and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S193A in addition to the approval number of the instrument.

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.

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

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

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

### DESCRIPTIVE ADVICE

**Pattern:** approved 3/4/91

. A Gedge Systems model GS1650 Mk3 digital mass indicator.

Technical Schedule No S193A describes the pattern.

**Variant:** approved 11/2/92

1. Model GS1650T Mk3 with a non-automatic taring device.

Technical Schedule No S193A Variation No 1 describes variant 1.

FILING ADVICE

Supplementary Certificate of Approval No S193A dated 28/6/91 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Supplementary Certificate of Approval No S193A dated 28/4/92  
Technical Schedule No S193A dated 28/6/91 (incl. Table 1 and Test  
Procedure)  
Technical Schedule No S193A Variation No 1 dated 28/4/92  
Figure 1 dated 28/6/91  
Figure 2 dated 28/4/92



# National Standards Commission

## TECHNICAL SCHEDULE No S193A

**Pattern:** Gedge Systems Model GS1650 Mk3 Digital Indicator.

**Submittor:** Gedge Systems  
488 Church Street  
Richmond VIC 3121.

### 1. Description of Pattern

A Gedge Systems model GS1650 Mk3 digital mass indicator approved for use with up to 8 500 verification scale intervals (Table 1) which may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.

Instruments may be as shown in Figure 1 or in alternative housings.

#### 1.1 Zero

Zero is automatically set to within  $\pm 0.25e$  whenever the instrument comes to rest within  $\pm 0.5e$ . If the instrument comes to rest outside that range but within the zero setting range, zero may be set by pressing the zero button. (refer also clause 1.2)

#### 1.2 Configuration

Instruments shall be configured in one of three formats by the use of factory-installed components. The configuration used is displayed whenever power is applied.

Con00 This is the standard configuration. Whenever power is applied, the zero button must be pressed to obtain a mass display.

Con01 With the BR1 option (includes retention of zero and tare values after a power failure).

Con02 With the BR2 option (as per BR1 plus a calendar/clock feature).

#### 1.3 Display Check

A display check is initiated whenever power is applied or by use of the TEST/CLEAR TARE button.

#### 1.4 Tare

Instruments may be fitted with a semi-automatic subtractive taring device of up to maximum capacity.

## 1.5 Linearisation Facility

Instruments are fitted with a programable single-point linearisation facility.

## 1.6 Verification Provision

Provision is made for a verification mark to be applied.

## 1.7 Markings

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

Manufacturer's name or mark	
Serial number	
Accuracy class	III
Maximum capacity	Max..... *
Minimum capacity	Min ..... *
Verification scale interval	e = d = ..... *
Maximum subtractive tare	T = - .....
NSC approval numbers - indicator	NSC No S193A
- other components	..... #

\* Repeated in the vicinity of each reading face.

# May be located separately from the other markings.

TABLE 1

Type: Gedge Systems	GS1650 Mk3
Maximum number of verification scale intervals	8 500
Minimum sensitivity	$0.66 \times 10^{-3}$ mV/scale interval
Excitation voltage	10 V DC or 12.5 V DC
Minimum load impedance	43.48 ohms
Maximum excitation current	230 mA

List of Specifications

## TEST PROCEDURE

Instruments shall be tested in conjunction with any tests specified in the approval documentation for the instrument to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the Inspector's Handbook.

The maximum permissible errors applicable are those applicable to the system to which the instrument approved herein is fitted, as stated in the approval documentation for the system.



S193A  
28/4/92

## National Standards Commission

TECHNICAL SCHEDULE No S193A

VARIATION No 1

**Pattern:** Gedge Systems Model GS1650 Mk3 Digital Indicator.

**Submittor:** Gedge Systems  
488 Church Street  
Richmond VIC 3121.

### 1. Description of Variant 1

A Gedge Systems model GS1650T Mk3 digital mass indicator (Figure 2) which complies with the pattern, and in addition has a keyboard-entered non-automatic taring device of up to the maximum capacity of the instrument.

# National Standards Commission



## **Notification of Change** **Supplementary Certificate of Approval No S193A** **Change No 1**

The following change is made to the approval documentation for the

Gedge Systems Model GS1650 Mk3 Digital Indicator

submitted by      Gedge Systems  
                         488 Church Street  
                         RICHMOND   VIC   3121.

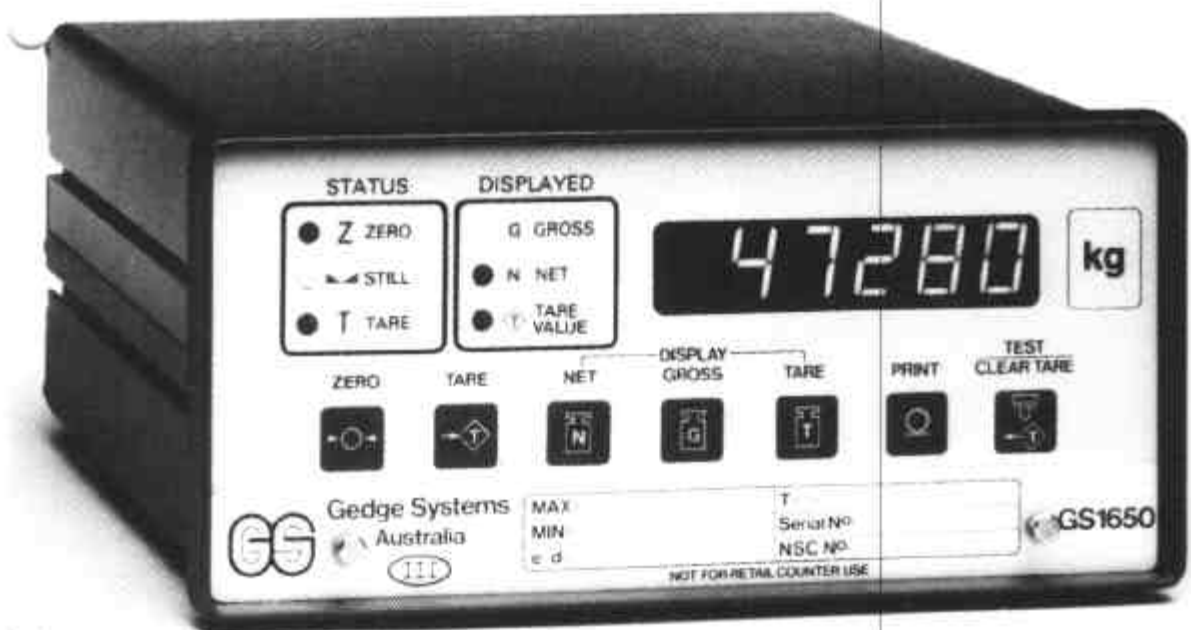
In Supplementary Certificate of Approval No S193A dated 28 April 1992, the Condition of Approval referring to the expiry of the approval should be amended to read:

This approval expires in respect of new instruments on 1 December 1997.

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 S193A - 1



Gedge Systems Model GS1650 Mk3 Indicator

FIGURE S193A - 2



Model GS1650T Mk3 Digital Indicator