

# National Standards Commission



## Supplementary Certificate of Approval

**No S292**

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

Scale Components Model 20035 Load Cell Protection Device

submitted by Scale Components Pty Ltd  
Unit 2, 57 Boyland Avenue  
Coopers Plains QLD 4108.

**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 1/10/97.  
This approval expires in respect of new instruments on 1/10/98.

Instruments purporting to comply with this approval shall be marked NSC No S292 and only by persons authorised by the submitter. Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S292 in addition to the approval number of the instrument.

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

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 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.

**Special:**

The approval of these devices does not in any way indicate approval by the Commission of any claims regarding the ability of these devices to protect load cells (or indicators) from damage. The approval means that the devices, when installed according to the manufacturer's specifications and within the limits of this approval, have not been found to detrimentally affect the performance of the weighing instrument.

DESCRIPTIVE ADVICE

**Pattern:** approved 11/9/92

. A Scale Components model 20035 load cell protection device.

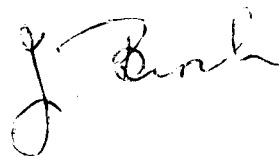
Technical Schedule No S292 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S292 dated 25/3/93  
Technical Schedule No S292 dated 25/3/93  
Figures 1 and 2 dated 25/3/93

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.

A handwritten signature in black ink, appearing to read 'J. Birch', is written over a faint circular stamp or seal.



# National Standards Commission

## TECHNICAL SCHEDULE No S292

**Pattern:** Scale Components Model 20035 Load Cell Protection Device.

**Submittor:** Scale Components Pty Ltd  
Unit 2, 57 Boyland Avenue  
Coopers Plains QLD 4108.

### 1. Description of Pattern

The pattern is a Scale Components model 20035 load cell protection device (Figure 1), one or two of which may be inserted in the cabling of load cells which are Commission-approved for use with up to 5000 verification intervals and with a maximum excitation voltage of 24 V (AC or DC).

**Note:** The devices are intended to protect the load cells from damage caused by lightning, however this approval does not in any way imply that such protection will result from the use of these devices.

#### 1.1 Method of Mounting

Installation is to be in accordance with the manufacturer's instructions and may include a surge reduction filter in the mains power supply to the digital indicator. Figure 2 shows a typical installation.

**Note:** Where the load cell is wired in a 4 wire system and it is necessary for the cable supplied with the cell to be cut in order to insert the load cell protection device(s), the cable cut-off should not be discarded but should be used to continue the load cell wiring.

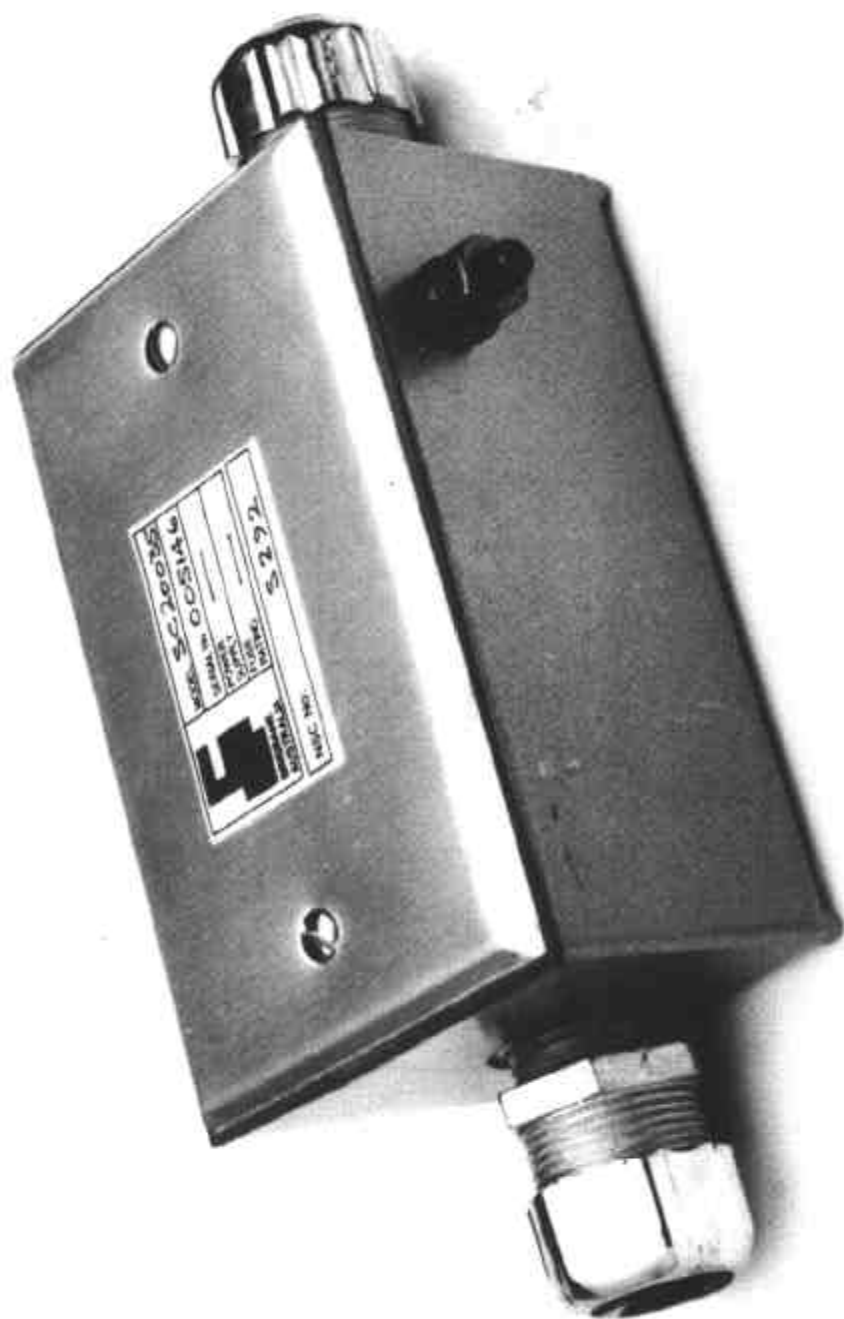
#### 1.2 Marking

The following is the minimum data required to be marked on the load cell protection device:

Manufacturer's name or mark  
Model number  
Serial number  
NSC approval number

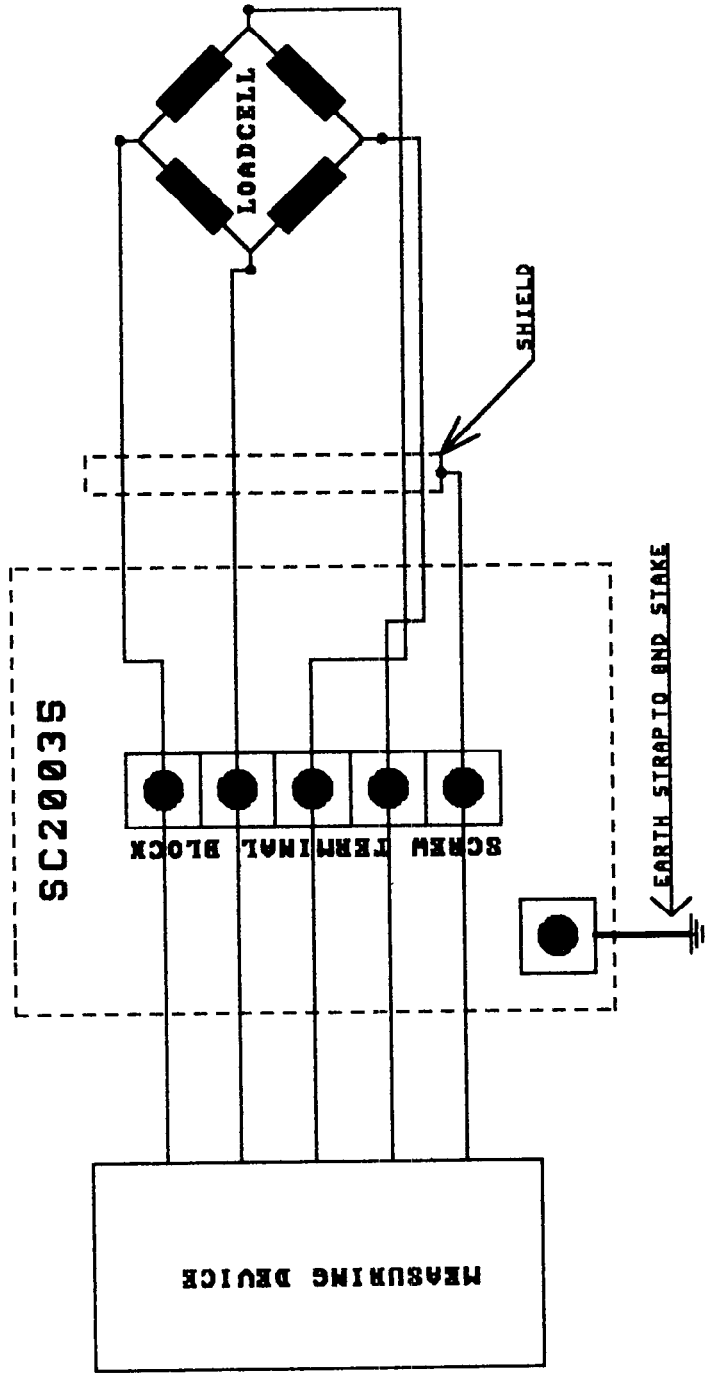
NSC No S292

FIGURE S292 - 1



Scale Components Model 20035 Load Cell Protection Device

FIGURE S292 - 2



Typical System