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9/2/87

## NATIONAL STANDARDS COMMISSION

### NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

#### REGULATION 9

#### SUPPLEMENTARY CERTIFICATE OF APPROVAL No S219

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

Precision Transducers Model ST500 Load Cell

submitted by Precision Transducers Limited  
7 Marken Place  
Glenfield Auckland New Zealand.

#### CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/11/91.  
This approval expires in respect of new instruments on 1/11/92.

Load cells purporting to comply with this approval shall be marked NSC No S219.

Instruments incorporating a load cell purporting to comply with this approval shall be marked NSC No S219 in addition to the approval number of the instrument.

This approval may be withdrawn if load cells are constructed other than in accordance with the drawings and specifications lodged with the Commission.

The number of scale intervals applicable to the instrument shall be no greater than the number of verification scale intervals approved for the basework or the load cell(s) or the indicator, whichever is the smallest.

The load cells used shall be subject to regular certification by the Commission.

Signed

Executive Director

#### Descriptive Advice

Pattern: approved 3/10/86

- Precision Transducers model ST500 load cell of 500 kg capacity.

Technical Schedule No S219 describes the pattern.

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Supplementary Certificate of Approval No S219

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Filing Advice

The documentation for this approval comprises:

Supplementary Certificate of Approval No S219 dated 9/2/87  
Technical Schedule No S219 dated 9/2/87  
Figures 1 to 3 dated 9/2/87



# NATIONAL STANDARDS COMMISSION

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## TECHNICAL SCHEDULE No S219

Pattern: Precision Transducers Model ST500 Load Cell.

Submitter: Precision Transducers Limited  
7 Marken Place  
Glenfield Auckland New Zealand.

### 1. Description of Pattern

The pattern is a Precision Transducers model ST500 load cell of 500 kg capacity (refer Figure 1 and Table 1).

#### 1.1 Method of Mounting

Mounting is to be in accordance with one of the methods shown in Figures 2 and 3.

#### 1.2 Marking

The following is the minimum data required to be marked on the load cells:

Manufacturer's name or mark	
Model number	
Serial number	
NSC approval number	NSC No S219
Maximum rated capacity	

TABLE 1

Type: Precision Transducers	ST500
Maximum capacity	500 kg
Maximum number of verification scale intervals	(a) 2000 (b) 2000 (c) 2000 (d) 2000
Minimum value of verification scale interval	(a) 0.08 kg (b) 0.10 kg (c) 0.12 kg (d) 0.20 kg
Output rating (nominal)	2 mV/V
Input impedance (nominal)	410 ohms
Supply voltage (AC or DC)	10-15 V
Cable length (+/- 0.1 m)	3 m
Number of leads	4 (excluding shield)

- (a) Instruments with automatic zero track - multi cell applications
- (b) Instruments with automatic zero track - single cell applications
- (c) Instruments without automatic zero track - multi cell applications
- (d) Instruments without automatic zero track - single cell applications

# National Standards Commission



## NOTIFICATION OF CHANGE

### SUPPLEMENTARY CERTIFICATE OF APPROVAL No S219

#### CHANGE No 1

The following changes are made to the approval documentation for the

Precision Transducers Model ST500 Load Cell

submitted by Precision Transducers Ltd  
7 Marken Place  
Glenfield Auckland New Zealand.

In Technical Schedule No S219 dated 9/2/87, Table 1 should be replaced by the attached Table which includes amended minimum values of verification scale interval.

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

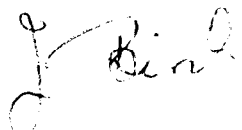


TABLE 1

Type: Precision Transducers model ST500

Maximum capacity		500 kg
Maximum number of verification scale intervals	(a)	2 000
	(b)	2 000
Minimum value of verification scale interval	(a)	0.046 kg
	(b)	0.116 kg
Output rating (nominal)		2.0 mV/V
Input impedance (nominal)		410 ohms
Supply voltage (AC or DC)		10-15 V
Number of leads (plus shield)		4
Cable length ( $\pm 0.1$ m)		3 m

(a) Instruments with automatic zero track.

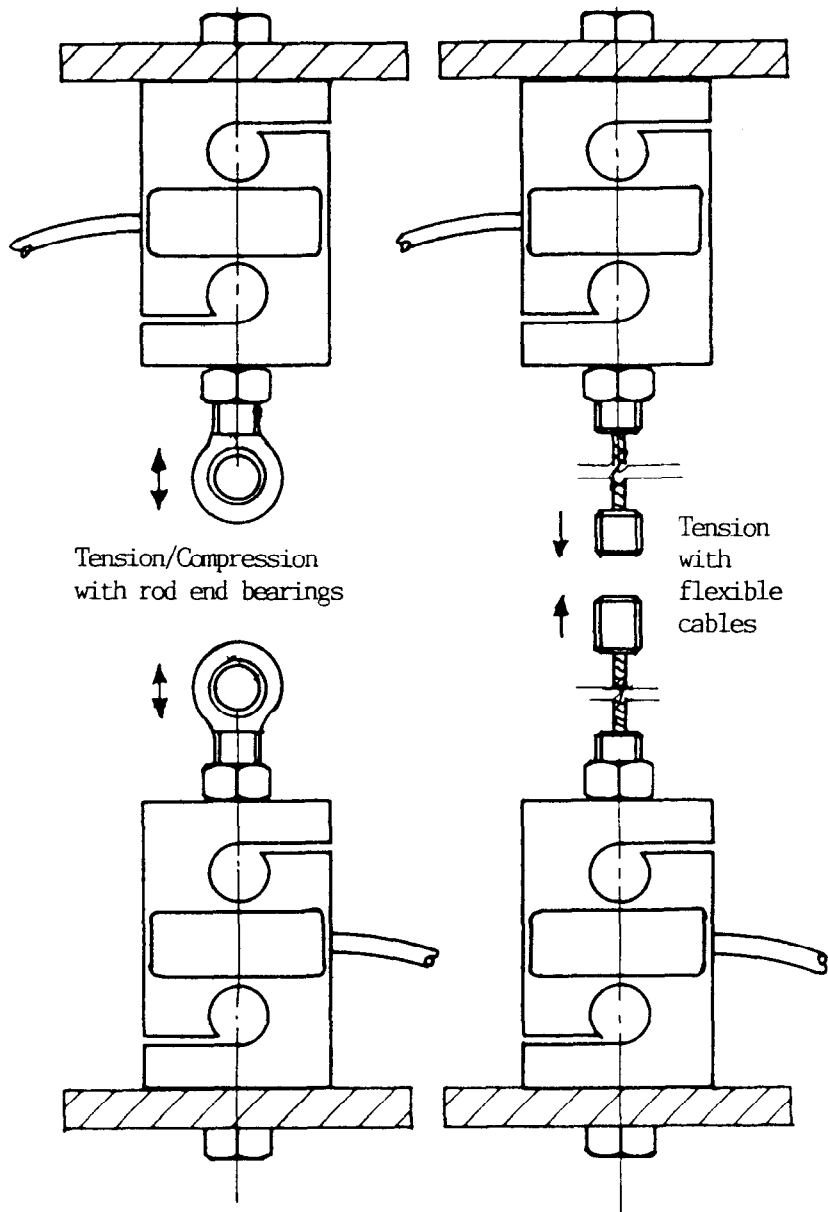
(b) Instruments without automatic zero track.

FIGURE S219 - 1



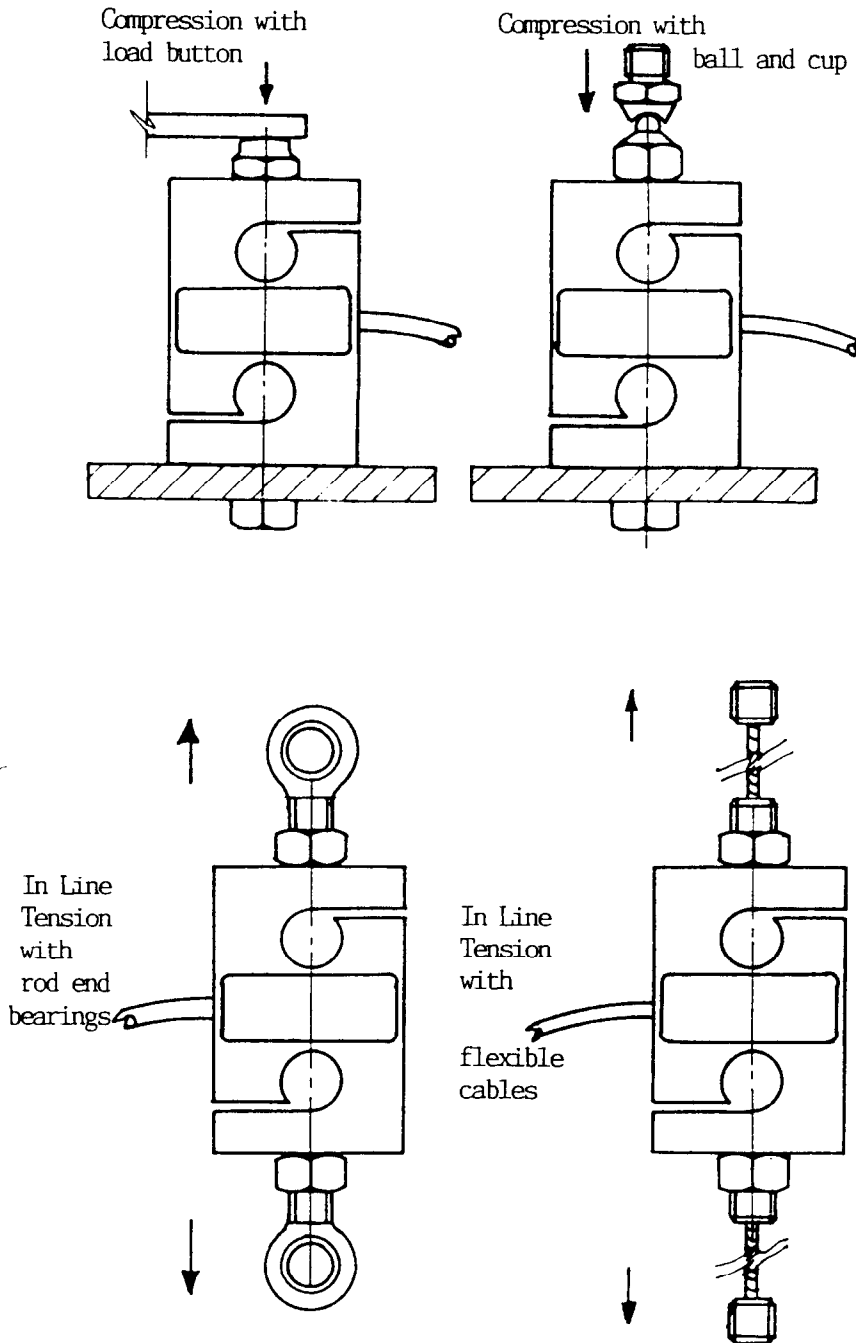
Model ST500 Load Cell

FIGURE S219 - 2



Optional Mounting Methods

FIGURE S219 - 3



Optional Mounting Methods