



S221  
27/10/87

## NATIONAL STANDARDS COMMISSION

### NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

#### REGULATION 9

#### SUPPLEMENTARY CERTIFICATE OF APPROVAL No S221

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

Hottinger Baldwin Measurements Model TRT-50 Load Cell

submitted by Mercury Weighing and Control Systems Pty Ltd  
32 Dew Street  
Thebarton SA 5031.

#### CONDITIONS OF APPROVAL

##### General:

This approval is subject to review on or after 1/12/91.  
This approval expires in respect of new instruments on 1/12/92.

Instruments incorporating a load cell purporting to comply with this approval shall be marked NSC S221 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This approval may be withdrawn if load cells are constructed other than in accordance with the drawings and specifications lodged with the Commission.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 load cells used shall be subject to regular certification by the Commission.

##### Special:

The submitter shall notify the Commission of each instrument incorporating these load cells, that is submitted to Weights and Measures Authorities for verification; the results of all verification tests are to be sent to the Commission.

Signed

Executive Director

#### Descriptive Advice

Pattern: approved 1/12/86

- Hottinger Baldwin Measurements Inc. (USA) model TRT-50 load cell of 22700 kg capacity. (Also known as a Mercury model TR3K-50)

Technical Schedule No S221 describes the pattern.

Filing Advice

The documentation for this approval comprises:

Supplementary Certificate of Approval No S221 dated 27/10/87  
Technical Schedule No S221 dated 27/10/87  
Figures 1 and 2 dated 27/10/87



# NATIONAL STANDARDS COMMISSION

## TECHNICAL SCHEDULE No S221

Pattern: Hottinger Baldwin Measurements Inc. Model TRT-50 Load Cell.

Submitter: Mercury Weighing and Control Systems Pty Ltd  
32 Dew Street  
Thebarton SA 5031

### 1. Description of Pattern

The pattern is a Hottinger Baldwin Measurements Inc. (USA) model TRT-50 load cell of 22700 kg capacity (refer Figure 1 and Table 1), which may also be known as a Mercury model TR3K-50.

#### 1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions. Figure 2 shows typical mounting methods.

#### 1.2 Marking

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

Manufacturer's name or mark	
Model number	
Serial number	
NSC approval number	NSC S221
Maximum rated capacity	

TABLE 1

Type: HBM Inc. (USA) TRT-50 (Mercury TR3K-50)

Maximum capacity	22700 kg
Maximum number of verification scale intervals	(a) 3000 (b) 3000 (c) 3000 (d) 3000
Minimum value of verification scale interval	(a) 2.27 kg (b) 5.00 kg (c) 4.38 kg (d) 5.00 kg
Output rating (nominal)	2.0 mV/V
Input impedance (nominal)	750 ohms
Supply voltage (AC or DC)	7.5 -20 V
Cable length (+ 0.1 m)	20 m
Number of leads (including shield)	7

- (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



25/3/88

# NATIONAL STANDARDS COMMISSION

## NOTIFICATION OF CHANGE

### VARIOUS CERTIFICATES OF APPROVAL

The following changes are made to the approval documentation for the approvals listed overleaf

submitted by   Mercury Weighing and Control Systems Pty Ltd  
                  32 Dew Street  
                  Thebarton SA 5031.

In the Certificates and Technical Schedules listed, the following changes should be made:

- 1) The submittor should be changed to read;  
  
    A & D Mercury Pty Ltd  
  
    (the address remains unchanged)
  
- 2) Any Mercury instrument or component of an instrument approved in the documentation, may now also be known as "AND Mercury" or similar.

Signed

Executive Director

APPROVAL            PATTERN**TYPE:** weighing instruments counter scales6/3/007            Model 92  
6/3/008            Model 131**TYPE:** counter machines semi-self-indicating

6/4A/012            Model 304A

**TYPE:** counter machines freely-suspended < 30 kg (spring scales)

6/5/011            Model 211 DA

**TYPE:** weighing instruments non-self-indicating6/9A/001            Models 692 and 682  
6/9A/004            Model 522D  
6/9A/007            Model 211  
6/9A/008            Model 600**TYPE:** weighing instruments self-indicating6/9C/005            Model 211D  
6/9C/013            Up to 2500 lb or 1200 kg  
6/9C/066            Model 522 AL  
6/9C/067            Model SM100/479/522D  
6/9C/081            Model SB-LP 1200  
6/9C/088            Model 522D LT-10K**TYPE:** weighbridges self-indicating6/10B/040            Model WB-LT  
6/10B/045A          Model RVB-H20**TYPE:** automatic weighing instruments (except belt conveyors)

6/14B/012            Model HSD automatic hopper

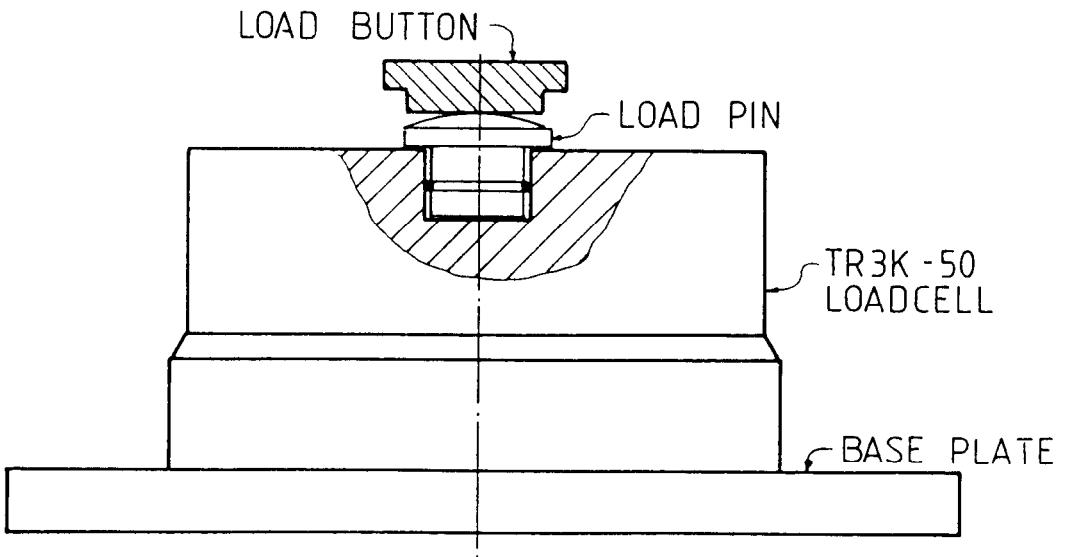
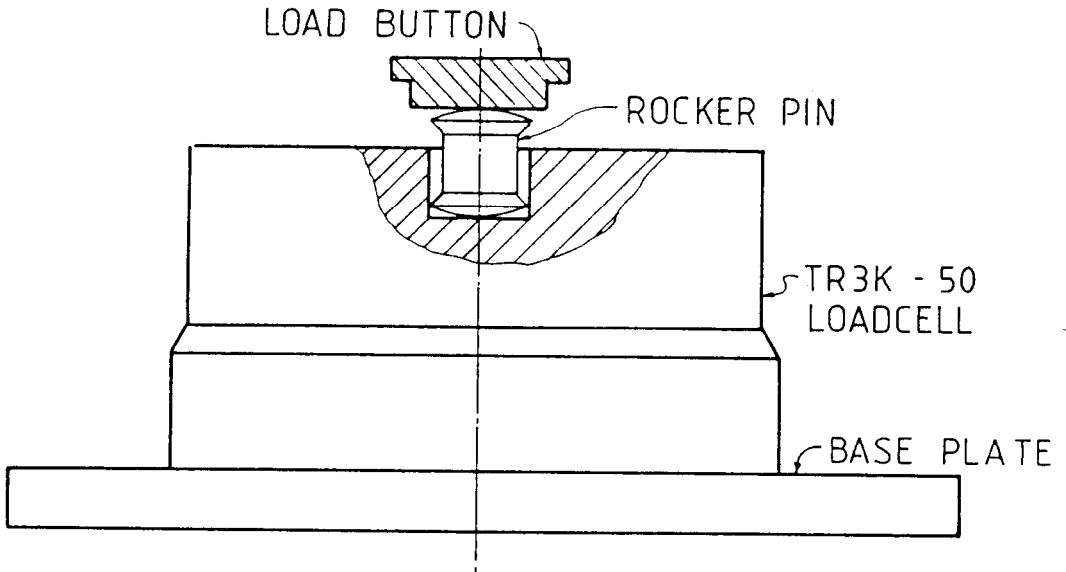
**TYPE:** overhead weighing instrument (suspended load or receptor)6/18/005            With 211DA headwork  
6/18/017            Model OHT 500**TYPE:** digital indicatorsS114                Model 579  
S128                Model 1300  
S132                Model 900  
S161                Model AD4316  
S199                Model AD-4321**TYPE:** load cellsS117                Interface model SM25-12 kg  
S163                Transducers model B5112.1K  
S221                HBM model TRT-50 (Mercury model TRT3K-50)

FIGURE S221 - 1



Typical TRT-50 (TR3K-50) Load Cell

FIGURE S221 - 2



Typical Mounting Methods