



## **National Standards Commission**

12 Lyonpark Road, North Ryde NSW

### **Conversion Certificate of Approval**

**No 6B/232**

Issued 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

Fairway (Converted) Weighing Instrument

submitted by Ranger Instruments Pty Ltd  
41 Success Street  
Acacia Ridge QLD 4110.

**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 becomes subject to review on 1 January 2006, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6B/232 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 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 the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

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

#### **Special:**

Instruments shall not be manufactured using this approval. Instruments shall only be converted or modified as described herein with a substitute indicator, in accordance with General Certificate No 6B/0.

### DESCRIPTIVE ADVICE

**Pattern:** approved 1 December 2000

- A converted Fairway weighing instrument of 42 000 kg maximum capacity with a verification scale interval of 20 kg. The pattern uses an HBM model Z3H2 load cell of 1000 kg capacity (as described in the documentation of NSC approval No S137), and has been converted by replacement of the Ranger model 9000 digital indicator and now uses a Ranger model 5100 digital indicator (as described in the documentation of NSC approval No S363).

**Variant:** approved 1 December 2000

1. Any other Commission-approved non-automatic lever/load cell or full load cell weighing instrument converted by replacing its digital indicator by another digital indicator in accordance with General Certificate No 6B/0. Both indicators must be Commission-approved by Supplementary Certificates of Approval.

Note: This approval does NOT allow the use of alternative load cells, the conversion of mechanical weighing instruments to lever/load cell weighing instruments, nor the manufacture of weighing instruments. (refer Special Condition of Approval).

### TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, and in accordance with any relevant tests specified in the Inspector's Handbook.

#### **Maximum Permissible Errors at Verification/Certification**

The maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads,  $m$ , expressed in verification scale intervals,  $e$ , are:

- $\pm 0.5e$  for loads  $0 \leq m \leq 500$ ;
- $\pm 1.0e$  for loads  $500 < m \leq 2\,000$ ; and
- $\pm 1.5e$  for loads  $2\,000 < m \leq 10\,000$ .

### FILING ADVICE

The documentation for this approval comprises only this Certificate.

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

