National Standards Commission

Certificate of Approval

No 6/9C/226

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

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

Ruddweigh Model 3000C Platform Weighing Instrument

submitted by Ruddweigh Australasia Pty Ltd
270 Falconer Street
Guyra NSW 2365.

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.

J. Birch

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CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/6/94.
This approval expires in respect of new instruments on 1/6/95.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/226 and only by persons authorised by the submittor.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the drawings and specifications 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.

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

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

DESCRIPTIVE ADVICE

Pattern: approved 23/5/89

- A Ruddweigh model 3000C platform weighing instrument of 1 200 kg maximum capacity approved for weighing livestock only.

Variant: approved 23/5/89

1. With alternative load receptors.

Technical Schedule No 6/9C/226 describes the pattern and variant 1.

Variant: approved 13/6/90

2. With alternative load beams.

Technical Schedule No 6/9C/226 Variation No 1 describes variant 2.

FILING ADVICE

Certificate of Approval No 6/9C/226 dated 11/9/89 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/9C/226 dated 17/9/90
Technical Schedule No 6/9C/226 dated 11/9/89 (incl. Test Procedure)
Technical Schedule No 6/9C/226 Variation No 1 dated 17/9/90
Figures 1 to 3 dated 11/9/89

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/226

Pattern: Ruddweigh Model 3000C Platform Weighing Instrument.

Submittor: Ruddweigh Australasia Pty Ltd
270 Falconer Street
Guyra NSW 2365.

1. Description of Pattern

A Ruddweigh model 3000C platform weighing instrument (Figure 1) which is approved for livestock weighing only. The instrument may be used as a single or multi-range instrument with a maximum capacity of 1200 kg and with a maximum of 600 verification scale intervals.

1.1 Basework

The basework has two 600 mm x 125 mm (nominal) load beams (Figure 2) which fully support the load receptor. Each load beam is fitted with two load cells. The load receptor is a model 400 'Cattle Scale Top' platform (Figure 1) which is nominally 2210 mm x 520 mm, and is positioned above ground, with or without loading ramps.

1.2 Load Cells

Four Kelba model KA-1000 C1 load cells of 1000 kg capacity are used (Figure 2) as described in the documentation of NSC approval No S155.

1.3 Indicator

The Kelba model KM-1 digital indicator may be used with 1, 2 or 3 ranges of 300, 600 and 1200 kg capacity with a verification scale interval of 0.5, 1 and 2 kg, respectively. Figure 3 shows a dual-range indicator.

1.3.1 Measuring Range

The measuring range is set by the operator before weighing is commenced and remains in that range until an alternative range is selected. The range in use is indicated by the illumination of the appropriate light.

1.3.2 Zero

The initial zero setting device has a range of up to 900 kg, irrespective of which measuring range or capacity is used.

Zero is automatically set to within $\pm$ 0.25e whenever the instrument comes to rest within $\pm$ 2e of zero. If the instrument comes to rest outside that range but within the zero setting range (i.e. $\pm$ 2% of the maximum capacity used), zero may be set by pressing the zero button.

The LCD segment marked STABLE is visible when the load on the load receptor is within $\pm$ 0.25e of zero. (Note: This segment also indicates 'no motion' when the load is outside the $\pm$ 2% zero range.)

1.3.3 Display Check

A display check is initiated whenever power is applied to the instrument.

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1.3.4 Mass Indication Hold Feature

The indicator has a feature which may be used to hold an indicated mass. This feature may be initiated either manually (by using the CHECK button) or automatically, depending on the mode of operation selected using the switch on the rear of the indicator.

A held mass is denoted by the LCD segment '+' being visible preceding the mass indication.

1.3.5 Low Battery Indication

Low battery condition is indicated by the appearance of colons (':') between the mass display digits.

1.4 Markings

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

Manufacturer's name or mark		
Serial number		
NSC approval numbers – instrument	NSC No 6/9C/226	
– load cell	NSC No S...	
Accuracy class	(III)	
Maximum capacity #	Max ... kg	*
Minimum capacity #	Min ... kg	*
Verification scale interval #	e = d = ... kg	*

For each range. (The range selected is indicated by the illumination of an indicator adjacent to the appropriate markings.)

* Repeated in the vicinity of each reading face.

In addition, the instrument shall be marked FOR LIVESTOCK WEIGHING ONLY and DO NOT USE ON A SLOPE EXCEEDING 1:50, or similar wording.

1.5 Verification Provision

Provision is made for a verification mark to be applied.

2. Description of Variant 1

With alternative load receptors, as listed below:

Model	Description	Length mm (nominal)	Width mm
410	General Purpose Platform	2000	650
300	Sheep Weigh Crate	1270	530
370	Pig Weigh Crate	1350	530

TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Inspector's Handbook. The results should not exceed the maximum permissible errors specified in Document 118, 2nd Edition, October 1986.

National Standards Commission

TECHNICAL SCHEDULE No 6/9C/226

VARIATION No 1

Pattern: Ruddweigh Model 3000C Platform Weighing Instrument

Submittor: Ruddweigh Australia Pty Ltd
270 Falconer Street
Guyra NSW 2365.

1. Description of Variant 2

With alternative load beams, each from 650 mm x 155 mm to 1 200 mm x 155 mm (nominal). Each load beam is fitted with two load cells, as described for the pattern.

Instruments are approved for livestock weighing only.

Any of the alternative load receptors listed below may be used:

Model	Description	Length mm (nominal)	Width mm (nominal)
4080	Weigh Crate	2 500	1 200
Mk 5	Cattle Crush	3 500	1 200

Other similar load receptors may be used provided they do not exceed 3 500 mm x 1 200 mm (nominal) and do not have a mass greater than 900 kg.

National Standards Commission

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/9C/226

CHANGE No 1

The following change is made to the approval documentation for the

Ruddweigh Model 3000C Platform Weighing Instrument

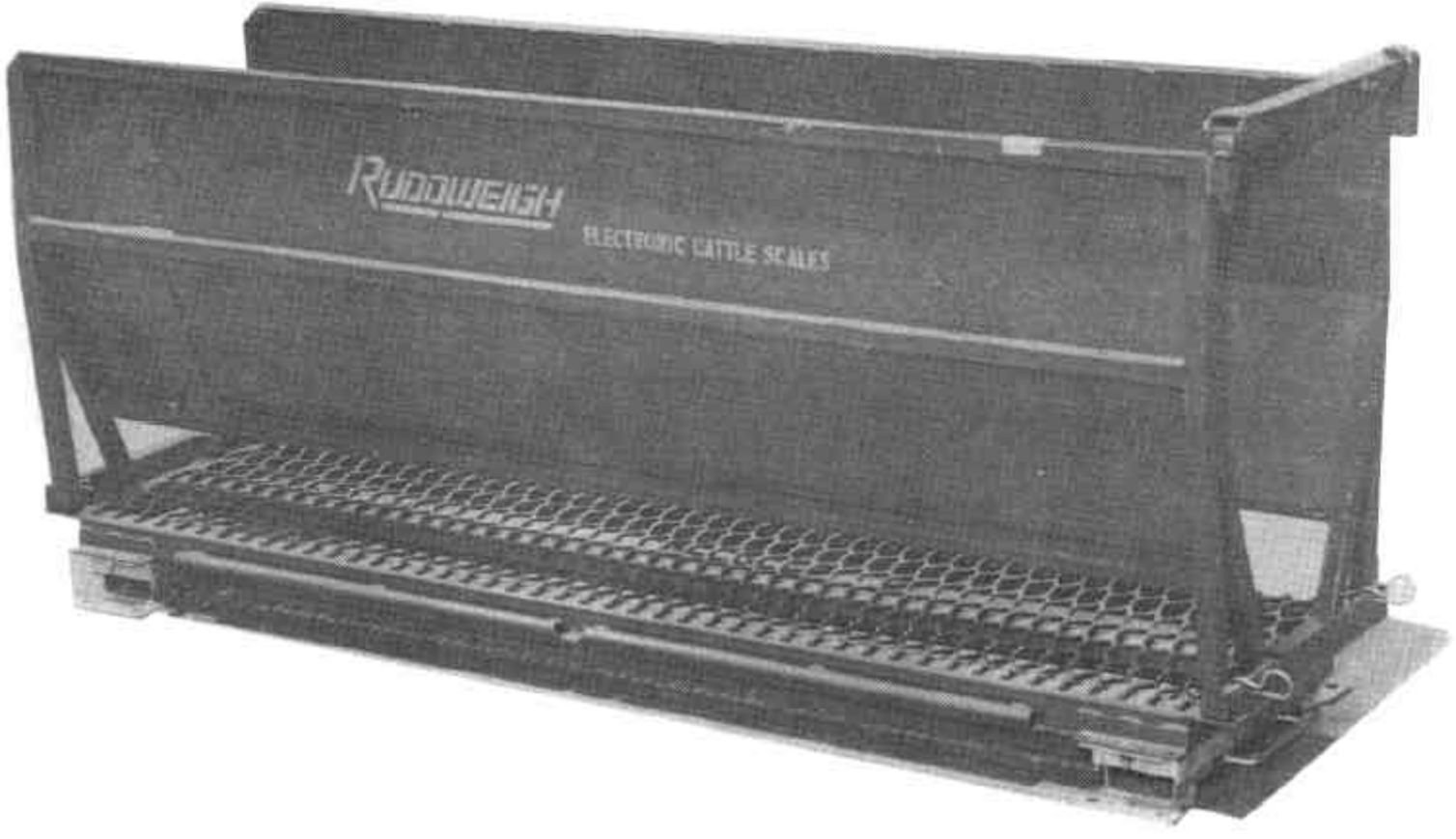
submitted by Ruddweigh Australasia Pty Ltd
270 Falconer Road
Guyra NSW 2365.

In Certificate of Approval No 6/9C/226 dated 17 September 1990, the Condition of Approval referring to the expiry of the approval should be amended to now read:

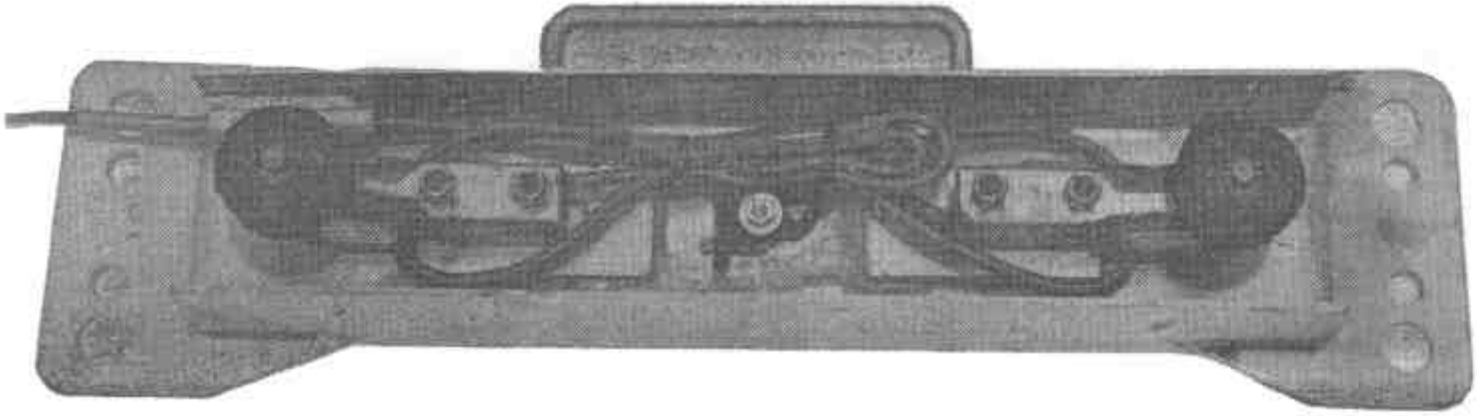
"This approval expires in respect of new instruments on 1 June 1996."

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 6/9C/226 - 1



) Ruddweigh Model 3000C Weighing Instrument)
With Model 400 Load Receptor



Load Beam With Cover Removed

Kelbo Model KM-1 Indicator