



**Ministry of Business,  
Innovation & Employment**

Wellington, New Zealand

# CERTIFICATE OF APPROVAL

## Weights and Measures Regulations 1999 Part 1 Regulations 5 and 6

Current Date of Issue: 15 December 2015  
Original Date of Issue: 26 August 2003

### Certificate 1736

Overseas Certificate No: S420

This certifies that the RINSTRUM R320, Indicating Device described overleaf has been approved as suitable for trade use subject to any conditions stated in the schedule:

Rinstrum Model R320 Indicator



**S R Bobbala**

**J P Crane**

Under delegated authority from the Chief Executive of The Ministry of Business, Innovation & Employment

*Note: This is not an approval to any person but only with respect to the type and pattern of weight, measure, or weighing or measuring instrument.*

## SCHEDULE

<b>Pattern:</b>	Weighing Instrument
<b>Make:</b>	RINSTRUM
<b>Model:</b>	R320
<b>Manufacturer:</b>	Rinstrum Pty Ltd, Queensland, Australia
<b>Submitter:</b>	Rinstrum Pty Ltd, Queensland, Australia.
<b>Maximum Capacity (Max):</b>	( n = 4000 )Max
<b>Minimum Capacity:</b>	20e
<b>Verification Scale Interval:</b>	Various
<b>Class:</b>	III
<b>Conditions of Approval:</b>	<ol style="list-style-type: none"><li>1. The number of verification scale intervals applicable to a complete weighing instrument which includes this pattern shall not exceed the smaller of:<ol style="list-style-type: none"><li>i) the number of verification scale intervals approved for this indicator.</li><li>ii) the number of verification scale intervals for the basework.</li></ol></li><li>2. Instruments not greater than 100 kg capacity shall carry a notice stating " NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC " or similar wording.</li><li>3. The number of verification scale intervals applicable to an instrument which includes this indicator shall not exceed 3000 when the instrument is installed:<ol style="list-style-type: none"><li>i) with the whole instrument outdoors.</li><li>ii) with the basework outdoors.</li></ol></li></ol>
<b>Description:</b>	



The Rinstrum model R320 is a single interval weighing indicator, approved for use with up to 4000 verification scale intervals.

The indicator may be powered by a 12-24 V DC supplied by an AC/DC mains adapter or other DC power source, or batteries (4.1 to 6 V DC) typically 4 x AA (alkaline, NiMH or NiCad).

Software Version: Instruments operate using Rinstrum type K302 version 3.xx software.

#### Additional Features.

The indicator has certain additional functions (e.g. hold functions, "Live Weight", counting) which can be assigned to a function key of the indicator. The additional functions (other than the indications of measured mass i.e gross, tare, net, displayed either on the indicator or on a auxiliary or peripheral device), are not approved in this certificate.

Other models in the series are the Rinstrum model R321 which has a stainless steel enclosure, and the Rinstrum model R310 which is similar to the model R320 but with fewer features namely:

- it has no output interfacing capability.
- It is not fitted with the linearisation facility
- It has none of the additional features as described above.

#### METROLOGICAL MARKINGS

A plate, which carries the metrological markings, is affixed to the side of the instrument.

Manufacturer's name	.....	Serial number	
Accuracy class....		Pattern approval No	TMU/TSS 1736
Max cap*	.....		
Min cap*	.....		
Verification scale interval*	.....		
Tare capacity	....		

\*These markings shall also be shown near the display.

#### ZERO SETTING DEVICES

Initial zero setting:- not more than 20% of maximum capacity.

Semi-automatic zero setting:- not more than 4% of maximum capacity.

Zero tracking device:- not more than 4% with corrections  $\leq 0.5d/\text{second}$

Accuracy  $\pm 0.25e$ .

#### TARE SETTING DEVICE

Semi-automatic subtractive tare.

#### Components:

Rinstrum R320 Indicator

#### Sealing:

The calibration and set-up modes are secured with a passcode. To ensure that a passcode has been set, press the POWER and FUNCTION keys together until the word set-up appears, following display of the software version and calibration event value, the words ENTER and CODE will appear. This indicates that a passcode has been set. In addition, a non-resettable calibration event counter increments every time that any parameter or calibration is changed and saved. The value of the calibration event counter is shown (as C followed by a number) in the display as part of the power-up display sequence, and the value at the time of verification/certification shall be recorded on a destructible adhesive label attached to the instrument.

Any subsequent alteration to the calibration or parameters will be evident as the recoded value and the current calibration event counter value will differ.

**Mark of Verification:**

An adhesive destructible approved type label, placed in a prominent position, shall take the Mark of Verification. Removal of this label deems the instrument not verified.

Rinstrum Model R310 Indicator



Rinstrum Model R321 Indicator

