



Australian Government

National Measurement  
Institute

Bradfield Road, West Lindfield NSW 2070

# Interim Supplementary Certificate of Approval NMI S463

**VALID FOR VERIFICATION PURPOSES UNTIL 19 AUGUST 2015**

Issued by the Chief Metrologist 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 instruments herein described.

Rinstrum Model R420 Digital Indicator

submitted by           Rinstrum 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.

This approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated July 2004.

## DOCUMENT HISTORY

| Rev | Reason/Details  | Date     |
|-----|---|----------|
| 0   | Pattern approved – interim certificate issued                     | 24/02/06 |
| 1   | Pattern – certificate issued                                      | 16/03/06 |
| 2   | Pattern amended – notification of change issued                   | 1/06/06  |
| 3   | Variant 1 approved – certificate issued                           | 22/08/06 |
| 4   | Variants 2 & 3 approved – certificate issued                      | 27/10/08 |
| 5   | Pattern & variants 1 to 3 reviewed & updated – certificate issued | 1/02/12  |
| 6   | Variants 4 & 5 approved – interim certificate issued              | 19/02/15 |

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S463' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S463' in addition to the approval number of the instrument, and only by persons authorised by the submittor.

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 National Measurement Institute (NMI) 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 document NMI P 106.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificates No S1/0/A or No S1/0B.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

**1. Description of Pattern** **approved on 24/02/06**

A Rinstrum model R420 digital mass indicator.

**Technical Schedule No S463 dated 1/02/12 describes the pattern and variants 1 to 3.**

**2. Description of Variant 4** **approved on 19/02/15**

The Rinstrum model R420-K491 digital indicator which is similar to the pattern but has K491 firmware. The firmware number can be seen in the switch-on display sequence (when the power is first applied to the instrument).

The instrument may be provided with an automatic tilt sensor/compensation device that automatically compensates for out of level conditions up to  $\pm 10^\circ$  in longitudinal or transverse directions. The tilt sensor/compensation device consists of a Rinstrum model M4904 tilt sensor and model M4211 tilt compensation module. The model M4904 tilt sensor uses a HL Planar model NS-10/PL2-S dual axis compensation level sensor.

**3. Description of Variant 5** **approved on 19/02/15**

The model R420 may also be provided with additional interfaces:

- Serial data storage device. For each weighing request, weighing results together with identification including date and time are stored into the storage device
- Ethernet data interface
- LUA Ethernet with USB data interface

**TEST PROCEDURE**

A suitable Test Procedure for variant 4 may be obtained from NMI

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.



Dr A Rawlinson