



Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/4D/369

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.

Ohaus Model RU-C2-B15D Weighing Instrument

submitted by Ohaus Corporation
Unit 3, 220 Turner Street
Port Melbourne VIC 3207

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.

This approval becomes subject to review on 1/05/18, and then every 5 years thereafter.

DOCUMENT HISTORY

| Rev | Reason/Details | Date |
|-----|---|----------|
| 0 | Pattern & variant 1 approved – interim certificate issued | 8/04/13 |
| 1 | Pattern & variant 1 approved – certificate issued | 11/06/13 |
| | | |

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4D/369' 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 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 Certificate No S1/0B.

Special Conditions of Approval:

Certain aspects of this instrument (in particular label and ticket formats) are able to be configured by the user. Whilst NMI believes that acceptable label and ticket formats can be achieved for typical basic sales modes, it is also possible for the instrument to be configured to produce unacceptable formats, and use of some formats may be inappropriate for different sales modes. It is the responsibility of the user to ensure that acceptable and appropriate formats are used in any particular situation.

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

TECHNICAL SCHEDULE No 6/4D/369

1. Description of Pattern

approved on 8/04/13

An Ohaus model RU-C2-B15D class III non-automatic self-indicating price-computing multi-interval weighing instrument (Table 1 and Figure 1) with a verification scale interval (e_1) of 0.002 kg up to 6 kg and a verification scale interval (e_2) of 0.005 kg from 6 kg up to the maximum capacity of 15 kg.

The instrument has an operator keyboard and display integrated into the instrument body, and a column-mounted customer display. Both monochrome liquid crystal dot matrix type displays are used for the presentation of tare, weight, unit price and price information, zero, net indications and functions relating to product look up (PLU) items.

Instruments are fitted with an integral printer, for printing of tickets or labels.

Instruments display unit price to \$9999.99/kg, total price to \$99999.99, and have a product look up (PLU) facility.

The instrument operates from mains AC power (240 V AC, 50 Hz).

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices.

1.1 Zero

A zero-tracking device may be fitted.

The initial zero-setting device of the pattern has a nominal range of not more than 20% of the maximum capacity of the instrument.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic and/or non-automatic keyboard-entered pre-set subtractive tare device, each of up to 5.998 kg, may be fitted.

Pre-set tare values may be associated with product look up (PLU) items.

A separate display of tare values is provided.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Networking

A number of instruments may be connected in a network to share common PLU data, for totalisation across instruments, and to accumulate and retrieve management information.

In addition, the instrument may be interfaced with a computer for the collection of management data, the downloading of PLU data.

Note: The weighing and price computing functions of each weighing instrument in the network are independent, and the removal, repair or replacement of a particular weighing instrument does not necessitate re-verification of any other weighing instrument in the network.

1.5 Levelling

The instrument is provided with adjustable feet and a level indicator, and adjacent to the level indicator is a notice advising that the instrument must be level when in use.

1.6 Interfaces

Instruments may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. Any interfaces shall comply with clause 5.3.6 of document NMI R76 (the basic intent of which is that it shall not be possible to alter weighing results via the interfaces).

Any measurement data output from the instrument or its interfaces shall only be used for trade in compliance with Supplementary Certificate No S1/0/B (in particular in regard to the data and its format).

Instruments may be fitted with a cash drawer, and with an Ethernet and two RS232 serial data interfaces.

1.7 Software

The software is designated as number 72197396 and version 0_S204STD non-legally relevant software as shown Figure 2.

The software version and number can be seen in the switch-on display sequence (when the power is first applied to the instrument).

1.8 Verification Provision


Provision is made for the application of a verification mark.

1.9 Sealing Provision

Provision is made for access to the calibration switch which is located beneath the load receptor to be sealed by means of two destructible labels placed over the access holes as shown in (Figure 3).

1.10 Descriptive Markings and Notices

Instruments carry the following markings:

| | |
|--|--|
| Manufacturer's mark, or name written in full | Ohaus Corporation |
| Indication of accuracy class |  |
| Pattern approval mark for the instrument | NMI 6/4D/369 |
| Maximum capacity | <i>Max</i> g or kg #1 |
| Minimum capacity | <i>Min</i> g or kg #1 |
| Verification scale interval | <i>e</i> = g or kg #1 |
| Maximum subtractive tare | <i>T</i> = - g or kg #2 |
| Serial number of the instrument | |
| #1 | These markings are shown near the display of the result. |
| #2 | This marking is required if <i>T</i> is not equal to <i>Max</i> . |

2. Description of Variant 1

approved on 8/04/13

Certain other capacities of the Ohaus model RU instruments as listed in Table 1 below (the pattern is shown in **bold**).

TABLE 1

| Model | Maximum Capacity (<i>Max</i>) | Minimum Capacity (<i>Min</i>) | Verification Scale Interval (<i>e</i>) | Maximum Subtractive Tare Capacity (<i>T</i> = - ...) |
|-------------------|------------------------------------|------------------------------------|---|--|
| RU-C2-B6D | 3/6 kg | 0.020 kg | 0.001/0.002 kg | 2.999 kg |
| RU-C2-B15D | 6/15 kg | 0.040 kg | 0.002/0.005 kg | 5.998 kg |
| RU-T2-B15D (#) | 6/15 kg | 0.040 kg | 0.002/0.005 kg | 5.998 kg |
| RU-C2-B30D | 15/30 kg | 0.100 kg | 0.005/0.01 kg | 14.995 kg |
| RU-T2-B30D (#) | 15/30 kg | 0.100 kg | 0.005/0.01 kg | 14.995 kg |

(#) These models have the operator and customer displays mounted on a column (Figure 4).

TEST PROCEDURE No 6/4D/369

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

The instrument shall not be adjusted to anything other than as close as practical to zero error, even when these values are within the maximum permissible errors.

Maximum Permissible Errors

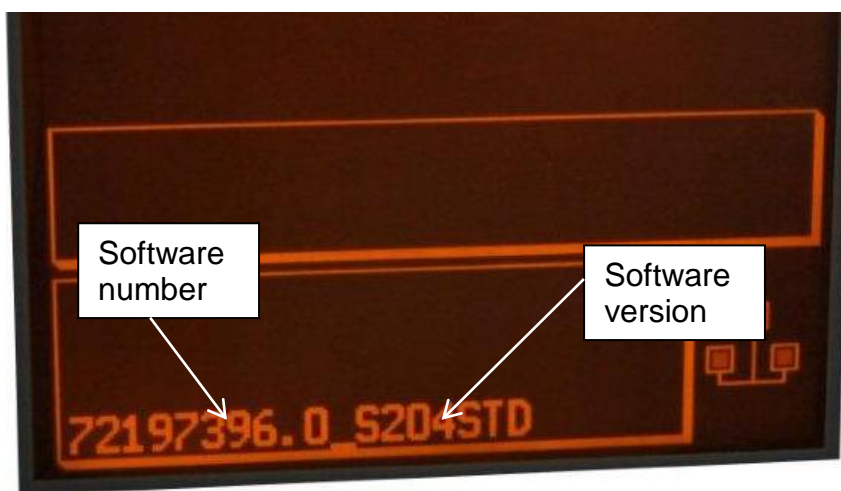
The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE 6/4D/369 – 1



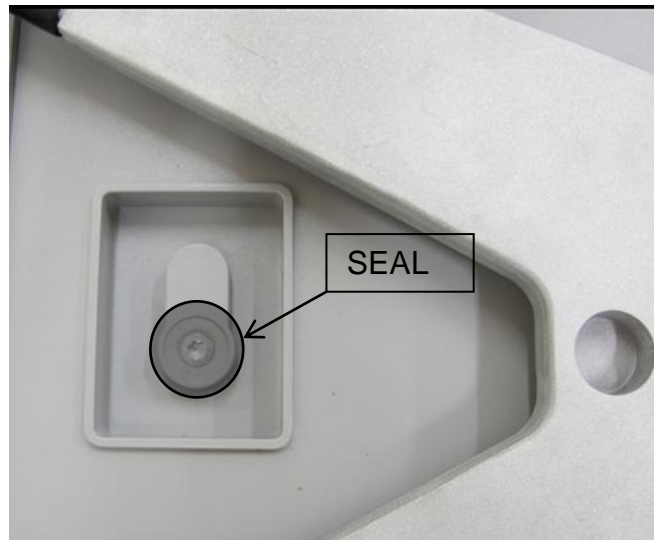
Ohaus Model RU-C2-B15D Weighing Instrument

FIGURE 6/4D/369 – 2



Ohaus Model RU Software Number and Version

FIGURE 6/4D/369 – 3



Typical Sealing Method

FIGURE 6/4D/369 – 4



Ohaus Model RU-T2-B15D

~ End of Document ~