



Australian Government

Department of Industry,
Science and Resources

**National
Measurement
Institute**

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/4C/336

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.

WIPOTEC Model HC-M-NSW 1.5k Weighing Instrument

submitted by WIPOTEC GmbH
Adam-Hoffmann-Strasse 26
67657 Kaiserslautern
Germany

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 October 2015.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 to 2 approved – certificate issued	24/04/25

CONDITIONS OF APPROVAL

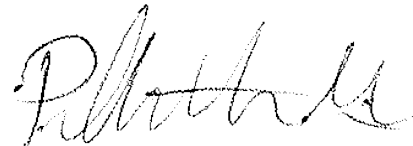
General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4C/336' 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 NMI General Supplementary Certificate of Approval No S1/0B.

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

A handwritten signature in black ink, appearing to read 'Phillip Mitchell', written in a cursive style.

Phillip Mitchell
A/g Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No 6/4C/336

1. Description of Pattern

approved on 24/04/25

The WIPOTEC model HC-M-NSW 1.5k high accuracy class II weighing instrument, (Figure 1 and Table 1) of 1500 g maximum capacity with a verification scale interval of 0.1 g and with a minimum capacity of 5 g.

The instrument is approved for use within a temperature range of +5 °C to +40 °C, and is so marked.

Instruments are not for trading direct with the public and are so marked.

Instruments are powered by AC mains supply.

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

1.1 Basework

The basework uses stainless steel construction and has the load receptor directly supported by a Wipotec Weigh Cell WZ-SA 1500 digital load cell. The load receptor has a nominal dimensions of 200 x 280 mm.

1.2 Indicator

A WIPOTEC model HC-M terminal is used. HC-M terminal is fitted with an IPC SWA4 digital process unit and has an LCD touchscreen display for display of the weight value and for alphanumeric information and/or menu.

1.3 Zero

A zero-tracking device may be fitted.

The initial zero-setting device 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.

1.4 Differentiated Scale Division

Instruments have an auxiliary indicating device (a differentiated scale division (digit)) which is shown in a double bracket (Figure 3) in the display) with a value as shown in the 'Scale Interval (d)' column of Table 1.

Scale intervals other than verification scale interval are not approved for trade use.

The differentiated scale division shall only be used for a weight value to be rounded to the nearest verification scale interval or determination of the zero position.

1.5 Display Check

A display check is initiated whenever power is applied.

1.6 Levelling

The instrument is provided with adjustable feet and a level indicator.

The instrument is to be used in a level condition as indicated by the level indicator.

1.7 Interface

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 R 76 (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 NMI Supplementary Certificate No of Approval S1/0B (in particular in regard to the data and its format).

Instruments may be fitted with the following interfaces:

- RS232;
- RS422;
- USB;
- Ethernet.

1.8 Additional Features

The instrument may be fitted with certain additional functions (e.g., statistics, gross weight register etc). The additional functions (other than the indications of measured mass, i.e. gross, tare, net, totals, displayed either on the indicator or on an auxiliary or peripheral device) are not approved for trade use.

1.9 Verification Provision

Provision is made for the application of a verification mark.

1.10 Descriptive Markings and Notices

The instrument model number is shown on the instrument nameplate. Instruments carry the following markings:

Manufacturer's mark, or name written in full	WIPOTEC GmbH
Indication of accuracy class	Ⓜ or ⓂⓂ
Pattern approval number for the instrument	NMI 6/4C/336
Maximum capacity	<i>Max</i> g #
Minimum capacity	<i>Min</i> g #
Verification scale interval	<i>e</i> = g #
Actual scale interval	<i>d</i> = g #
Serial number of the instrument
Special temperature limits	+5 °C to +40 °C

#1 These markings are shown near the display of the result.

In addition, instruments shall carry a notice stating NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

1.11 Software

The software version is designated NAWID V 01.00.

The software version and number appear during the boot process when the power is first applied to the instrument.

1.12 Sealing Provision

Provision is made for the calibration to be sealed by setting the S3 switch on the IPC SWA4 digital process unit within the HC-Term terminal to an ON position and using a destructible adhesive label placed over the switch as shown in Figure 2.

It is possible to determine that the S3 switch status is in the 'ON' position during the boot process when the power is first applied to the instrument.

- If the S3 switch is in the 'ON' position, the instrument will display a message 'Calibration Locking Device Activated' in which case the instrument may be verified.
- Otherwise the instrument should not be verified until the switch has been correctly located in the 'ON' position.

2. Description of Variant 1

approved on 24/04/25


Certain other capacities of the WIPOTEC model HC-M-NSW series of class  instruments as listed in Table 1 below (the pattern is shown in **bold**).

TABLE 1

Model	Maximum Capacity (Max)	Minimum Capacity (Min)	Verification Scale Interval (e)	Scale Interval (d)	Weigh Cell
HC-M-NSW 1.5k	1500 g	5 g	0.1 g	0.01 g	WZ-SA 1500
HC-M-NSW 3k	3000 g	10 g	0.2 g	0.02 g	WZ-SA 3000
HC-M-NSW 7.5k	7500 g	25 g	0.5 g	0.05 g	WZ-SA 7500

3. Description of Variant 2

approved on 24/04/25


Certain capacities of the WIPOTEC model HC-M-NSW series of class  instruments as listed in Table 2 below.

TABLE 2

Model	Maximum Capacity (Max)	Minimum Capacity (Min)	Verification Scale Interval (e)	Weigh Cell
HC-M-NSW 1.0k	1000 g	2 g	0.1 g	WZ-SA 1500

TEST PROCEDURE No 6/4C/336

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*.

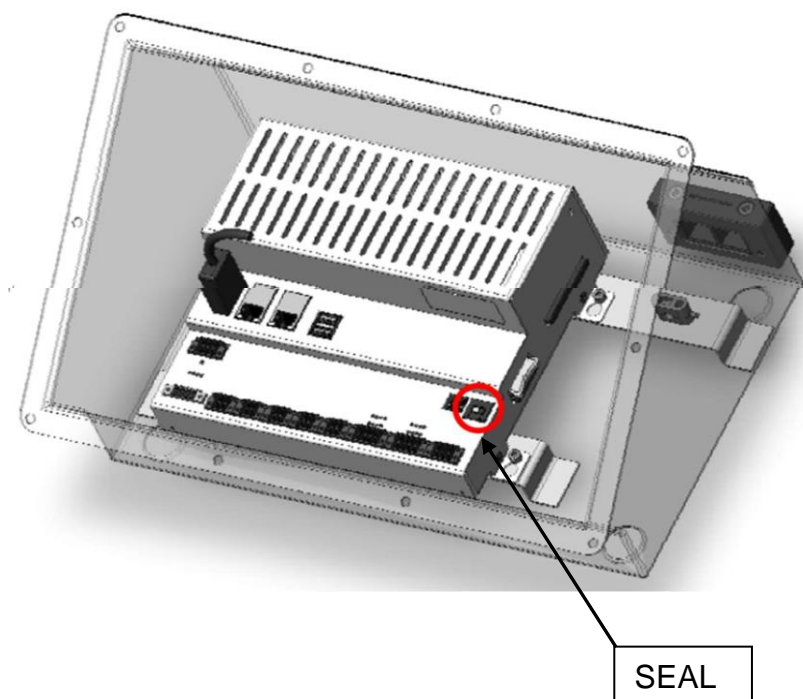
Ensure that instruments are only being used within the special temperature limits stated elsewhere in this Technical Schedule.

FIGURE 6/4C/336 – 1



WIPOTEC HC-M-NSW Series Weighing Instrument

FIGURE 6/4C/336 – 2



Typical Sealing Arrangement

FIGURE 6/4C/336 – 3



Differentiated Scale Division

~ End of Document ~