



**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: 28 February 2023  
Original Date of Issue: 28 February 2023

### Certificate 2436

Overseas Certificate No: NMI 6/9C/326 Rev0

This certifies that the Ohaus Defender i-D61PW and i-D61XW Series, Instrument described overleaf has been approved as suitable for trade use subject to any conditions stated in the schedule:

Figure 1 - Defender i-DT61PW Series (column mounted indicator)



Models with suffix 6AU / 7AU

**S R Bobbala**

**J Hattingh**

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

Overseas Certificate No: NMI 6/9C/326 Rev0

<b>Pattern:</b>	NAWI – Bench & Counter Type
<b>Make:</b>	Ohaus
<b>Model:</b>	Defender i-D61PW and i-D61XW Series
<b>Manufacturer:</b>	Ohaus Australia Pty Ltd
<b>Submitter:</b>	Ansutek Commercial Ltd, Manukau, Auckland.
<b>Maximum Capacity (Max):</b>	3 kg ≤ Max ≤150 kg (n=3000max, see Table 1 and 2)
<b>Minimum Capacity:</b>	20e
<b>Verification Scale Interval:</b>	≥ 0.001 kg (n = 3000 max, see Table 1 and 2)
<b>Class:</b>	III

<b>Conditions of Approval:</b>	<ol style="list-style-type: none"><li>1. Instruments must carry a notice stating "NOT TO BE USED FOR DIRECT SALES TO PUBLIC" or similar wording</li><li>2. Adjacent to level indicator a level notice stating "incorrect if not truly level" or a similar wording must be shown.</li><li>3. Trading Standards reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.</li><li>4. This Certificate only covers compliance with respects to the relevant sections of the Weights and Measures Act and Regulations and should not be construed as guarantee of compliance with any safety requirements.</li></ol>
--------------------------------	--

### Description:

An Ohaus model Defender i-D61 Series are a Class III, self-indicating, non-automatic weighing instruments. The instruments are configured as single interval with a certain capacity, verification scale interval and load receptor size as detailed in Table 1 and 2.

**Note:** The model number is made of alphanumeric characters which represents the following

- i. Type of indicator:
  - Model i-DT61PW (Figure 1); or
  - Model i-DT61XWE (Figure 2)
- ii. Maximum capacity, ranging from 3 kg to 150 kg
- iii. Basework model & load receptor size
- iv. Indicator mounting
  - Column mount (Figure 1 and 2, model numbers with suffix 6AU / 7AU)
  - Front mount (Figure 3, model numbers with suffix 5AU)

### Basework:

Ohaus model Defender 6000 Series base work has the load receptor directly supported by a single load cell. The construction is of a stainless steel frame and stainless steel platform (Figure 4 and 5).

### Load Cell:

The base work uses any one of the following load cell:

- HBM Type PW15AH C3 load cell, or
- Mettler Toledo Type SSH C3

The load cell details and Emax capacity are detailed in TABLE 1 and 2.

**Indicator:**

Instruments use the following indicators.

- Model i-DT61PW: This indicator has an ABS enclosure with an LCD display for display of the weight value (Figure 1 and 3).
- Model i-DT61XWE: This indicator has a stainless steel enclosure with an LED display for display of the weight value (Figure 2).

**Display Check:**

A display check is initiated whenever power is applied.

**Power supply:**

- 6 x D size 1.5 V dry batteries
- AC power: 100-240 V AC 50/60 Hz

**Software:**

The legally relevant software is designated as Sr 1.xx, where 'xx' refers to identification of non-metrological software.

**Interfaces:**

The instruments may be fitted with interfaces for the connection of auxiliary and/or peripheral devices.

**Type of Interfaces:**

- RS232
- RS485
- Ethernet
- USB
- Digital Input/Outputs

Note: The Auxiliary devices shall meet the following conditions:

- (i) have no function that would cause a variation in the display of the measured or computed quantities
  - (ii) is not capable of transmitting any data or instruction into the weighing instrument which could alter the weighing results, other than to release a printout, checking for correct data transmission or validation
- Or

As indicated from time to time by Trading Standards.

**Additional Features:**

Instruments may be equipped with certain additional functions (e.g. check weighing 'Lo/OK/Hi', percent weighing, dynamic weighing, accumulation with statistical information). These additional functions (other than the indications of measured mass, i.e. gross, tare, net), are not approved for trade use.

**ZERO SETTING DEVICE:**

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.

**TARE:**

An automatic subtractive tare device and/or semi-automatic subtractive tare device and/or pre0set tare device, each o up to maximum capacity of the instrument may be fitted.

**METROLOGICAL MARKINGS:**

Instruments must carry the following markings:

Manufacture's mark or Name:

Accuracy Class: III

Maximum Capacity: ..... \*

Minimum Capacity: ..... \*

Verification Scale Interval (e): ..... \*

Maximum subtractive tare T: -.....\*\*

Serial number:.....  
Pattern Approval No: TS2346

\*These markings must also be shown near the display of the result if they are not already located there.  
\*\*This marking is required if T is not equal to max.

Instruments must carry a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

The markings below are to be affixed to the load cell.

Manufacturer's name .....  
Model number .....  
Serial number .....  
Pattern approval number .....  
Maximum capacity Emax .....  
Class

**Components:**

- HBM Type PW15AH C3 load cell
- Mettler Toledo Type SSH C3

**Sealing:**

A calibration switch is provided within the indicator housing and must be set to 'ON' position to seal the calibration parameters. Access to the switch is restricted by sealing the cover (Figure 6 and 7) by using an adhesive destructible label or using a wire through the drilled screws and terminating into a lead plug.

The switch status can be seen in the switch-on display sequence when the power is first applied to the instrument.

- If the switch is in the 'ON' position, the instrument will display 'LFt ON'.
- If the display does not show 'LFt ON', then the instrument must not be verified or inspected, and the instrument is deemed to be not verified.

**Mark of Verification:**

An adhesive destructible label or an approved type seal used to inhibit access to calibration functions of the instrument should carry a Mark of Verification. Removal of seal deems the instrument not verified.

**Levelling:**

The instrument is provided with adjustable feet and a level indicator. Adjacent to level indicator a level notice stating "incorrect if not truly level" or a similar wording must be shown.

**TABLE 1 - Configuration Details - Model i-D61PW Series**

Model	Maximum Capacity (Max) (kg)	Minimum Capacity (Min) (kg)	Verification Scale Interval (e) (kg)	Platform Size (mm x mm)	HBM PW15AHC3 Load Cell
i-D61PW3K1S6AU	3	0.02	0.001	254 x 254	PW15AHC3 10kg
i-D61PW6K1S6AU	6	0.04	0.002	254 x 254	PW15AHC3 10kg
i-D61PW15K1R6AU	15	0.1	0.005	305 x 305	PW15AHC3 20kg
i-D61PW30K1R6AU	30	0.2	0.01	305 x 305	PW15AHC3 50kg
i-D61PW60K1L7AU	60	0.4	0.02	400 x 500	PW15AHC3 100kg
i-D61PW3K1S5AU	3	0.02	0.001	254 x 254	PW15AHC3 10kg
i-D61PW6K1S5AU	6	0.04	0.002	254 x 254	PW15AHC3 10kg
i-D61PW15K1R5AU	15	0.1	0.005	305 x 305	PW15AHC3 20kg
i-D61PW30K1R5AU	30	0.2	0.01	305 x 305	PW15AHC3 50kg
i-D61PW60K1L5AU	60	0.4	0.02	400 x 500	PW15AHC3 100kg

Model	Maximum Capacity (Max) (kg)	Minimum Capacity (Min) (kg)	Verification Scale Interval (e) (kg)	Platform Size (mm x mm)	Mettler Toledo SSH C3 Load Cell
i-D61PW150K1L7AU	150	1	0.05	400 x 500	SSH 300kg
i-D61PW150K1L5AU	150	1	0.05	400 x 500	SSH 300kg

**TABLE 2 - Configuration Details - Model i-D61XWE Series**

Model	Maximum Capacity (Max) (kg)	Minimum Capacity (Min) (kg)	Verification Scale Interval (e) (kg)	Platform Size (mm x mm)	HBM PW15AHC3 Load Cell
i-D61XWE3K1S6AU	3	0.02	0.001	254 x 254	PW15AHC3 10kg
i-D61XWE6K1S6AU	6	0.04	0.002	254 x 254	PW15AHC3 10kg
i-D61XWE15K1R6AU	15	0.1	0.005	305 x 305	PW15AHC3 20kg
i-D61XWE30K1R6AU	30	0.2	0.01	305 x 305	PW15AHC3 50kg
i-D61XWE60K1L7AU	60	0.4	0.02	400 x 500	PW15AHC3 100kg

Model	Maximum Capacity (Max) (kg)	Minimum Capacity (Min) (kg)	Verification Scale Interval (e) (kg)	Platform Size (mm x mm)	Mettler Toledo SSH C3 Load Cell
i-D61XWE150K1L7AU	150	1	0.05	400 x 500	SSH 300kg

Figure 2 - Defender i-DT61XWE Series (column mounted indicator)



Figure 3 - Defender i-DT61PW (front mount indicator)



Models with suffix 5AU



Figure 4 - Baswork with HBM PW15AH Load Cell



Figure 5 - Baswork with Mettler Toledo SSH Load Cell



Figure 6 - Typical Sealing Provision (Model i-DT61PW Indicator)

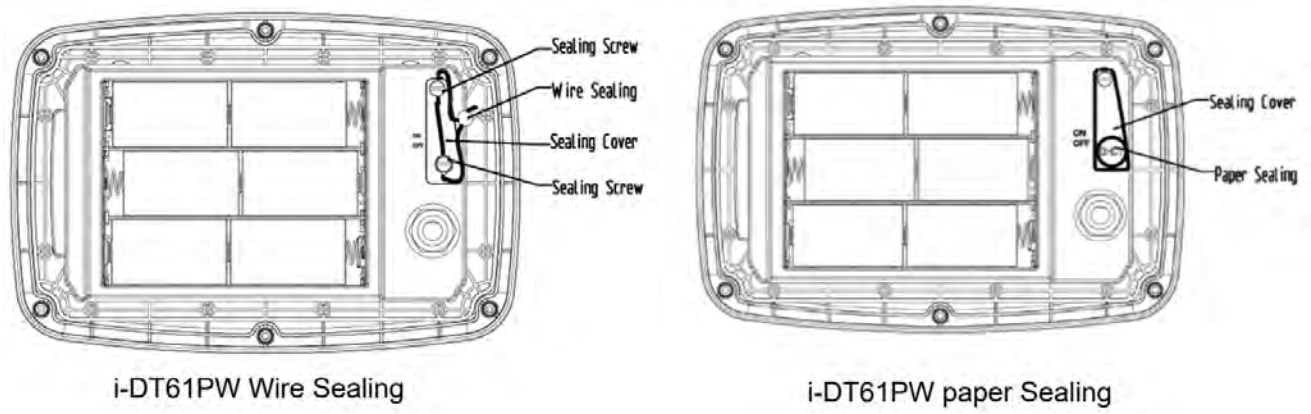


Figure 7 - Typical Sealing Provision (Model i-DT61XWE Indicator)

