

The OHAUS next generation Defender 5000 Series multifunctional washdown bench scale is ideal for a multitude of applications, including production, packaging, inventory and shipping. Built durably and equipped with advanced features such as maximum configurability print output, GMP/GLP data output, library/user management, and multiple connectivity options - the Defender 5000 is designed to simplify demanding industrial and commercial applications



**Capacity x Readability**  
 Non Legal Mode: 500 lb x 0.02 lb  
 Legal For Trade: 500 lb x 0.1 lb  
**Pan Size**  
 24 x 18 in

Manufacture: Ohaus  
 SKU: **D52XW250WTX5**  
 Free Ground Shipping within the 48 continental US States



Legal for Trade

**Please Call**  
**(800)832-0055**

## Features

The OHAUS next generation Defender 5000 Series multifunctional washdown bench scale is ideal for a multitude of applications, including production, packaging, inventory and shipping. Built durably and equipped with advanced features such as maximum configurability print output, GMP/GLP data output, library/user management, and multiple connectivity options - the Defender 5000 is designed to simplify demanding industrial and commercial applications.

- **Standard Features:**
- **Indicator Guides The User with On-Screen Prompts** See results clearly on the large backlit display. The alpha-numeric keypad and function keys allow for a simplified user experience. On-screen prompts and soft keys will guide you through the operation.
- **Durably Constructed To Withstand Harsh Industrial Environments** Durably constructed with a stainless steel platform, frame, indicator front mount, IP67 loadcell and IP68/NEMA4X indicator. Supports up to 5,000d NTEP and Measurement Canada certified resolution for legal-for-trade applications.
- **Multiple Application Modes and High Storage Capacity for Greater Flexibility** Features common industrial modes and supports a 50,000 item library and 1,000 user profiles which can be downloaded/uploaded for easy set-up with the included Micro SD card. Also equipped with GMP/GLP capability with time/date for result traceability.
- **Multiple Connectivity Options for Convenient Data Transfer and Storage** Results can be stored in the MicroSD card. Data output by built-in RS232 or optional interfaces including 2nd RS232/485/USB Device, Ethernet, Bluetooth/WiFi, Analog Output and Discrete I/O with relays.

### Simplified Use

Results can be read easily on the Defender 5000's large transfective dot matrix display, even in bright sunlight. The SmartText 3.0 interface will guide you through all of the Defender 5000's unique and advanced features. With five soft keys, SmartText 3.0 makes an advanced scale very simple to use, and reduces training time for operators.

### Durable Construction

The Defender 5000 can be used for both general and legal-for-trade applications. For standard industrial applications, the Defender 5000 bench scales offer durable performance at a practical price.

### Simple Operation

Featuring most common applications including Parts Counting with APW optimization, Checkweighing or Checkcounting, Percent Weighing, and Dynamic Weighing or Display Hold, the Defender 5000 meets the weighing and measurement needs of practically every industrial application or manufacturing process. Many application modes eliminate the need for long and complicated manual calculations. GMP/GLP with time/date allows for traceability of results. Equipped with the included Micro SD card, the Defender 5000 can support storage of up to 50,000 items and 1,000 user profiles. Weighing results can also be stored in Alibi or regular format, addressing all your data storage needs.

### Multiple Connectivity Options

Weighing results can be easily exported through the standard RS232 port. Additional connectivity options include a second RS232, RS485 or USB device; Ethernet; and WiFi/Bluetooth interfaces. Using the Analog Option (either 4-20mA or 0-10V) or the two In/four Out Discrete I/O, the new Defender 5000 indicator can also be used for systems including PLCs.

## Application Modes

- **Weighing:** Determine the weight of items in the selected unit of measure.
- **Parts Counting:** Count samples of uniform weight. Advanced auto-optimization software recalculates the average piece of weight as the overall weight increases.
- **Checkweighing/Counting:** Compare the weight/count of a sample against target limits. Connect with Discrete I/O and Light Tower Kit for external check lights.
- **Percent Weighing:** Measure the weight of a sample displayed as a percentage of a pre-established reference weight.
- **Dynamic Weighing and Display Hold:** Weigh an unstable load. Scale takes an average of weights over a period of time. The Display Hold feature manually or automatically holds the last stable weight on the display

## Specifications

|  | D52XW50WQL5<br>30461466 | D52XW50WTX5<br>30461668 | D52XW50WQV5<br>30461671 | D52XW125WQL5<br>30461467 | D52XW125WTX5<br>30461669 | D52XW125WQV5<br>30461672 | D52XW250WTX5<br>30461670 |
|--|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|--|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

500  
x  
0.02  
lb  
250  
kg x  
10 g

**Model**

**Standard  
Capacity x  
Readability**

100 x 0.005 lb  
50 kg x 2 g

100 x 0.005 lb  
50 kg x 2 g

100 x 0.005 lb  
50 kg x 2 g

250 x 0.01 lb  
125 kg x 5 g

250 x 0.01 lb  
125 kg x 5 g

250 x 0.01 lb  
125 kg x 5 g

**Legal for Trade  
Capacity x  
Readability**

100 x 0.02 lb  
50 kg x 10 g

100 x 0.02 lb  
50 kg x 10 g

100 x 0.02 lb  
50 kg x 10 g

250 x 0.05 lb  
125 kg x 50 g

250 x 0.05 lb  
125 kg x 50 g

250 x 0.05 lb  
125 kg x 50 g

500 x 0.1 lb  
250 kg x 50 g

**Pan Size**

18 x 18 in

24 x 18 in

24 x 24 in

18 x 18 in

24 x 18 in

24 x 24 in

24 x 18 in

**Min APW (g)**

0.1

0.1

0.1

0.25

0.25

0.25

0.5

**Legal For Trade**

NTEP Class III 5,000 d Indicator: CC 18-065, Platforms: CC 18-077  
Measurement Canada Indicator: AM-6093, Platforms: AM-6107

**Internal Counting  
Resolution**

1:500,000

**Linearity/Repeatability** ±2d

**Indicator**

TD52XW IP68 / NEMA 4X Stainless Steel Indicator

**Weighing Units**

lb, oz, lb:oz, kg, g, metric ton, short ton, custom unit

**Application Modes**

Weighing, Percent Weighing, Piece Counting with Optimized APW, Checkweighing/Checkcounting, Dynamic Weighing/Display Hold

**Display**

Dot matrix LCD with white LED backlight, 256 x 80 pixels

**Keyboard**

6 function, 5 quick, 12 alpha numeric membrane switches

**Auto-zero Tracking**

Off, 0.5 d, 1 d or 3 d

**Zeroing Range**

2% or 100% of capacity

**Interface**

Standard RS232

Optional Ethernet, WiFi/Bluetooth, RS232/RS485/USB, Analog Output, 2 In/4 Out Discrete I/O

**Power**

100-240 VAC / 50/60 Hz Universal Power Supply, Rechargeable Lithium battery (optional)

**Battery Life**

20 hours of continuous use

**Calibration**

Zero, Span or 3 point-Linear

**Maximum Overload**

150-200% depending on capacity

**Mount**

Stainless steel front-mount bracket with handle

**Base Construction**

Stainless steel removable weighing platform with stainless steel frame, silicon-sealed IP67 stainless steel loadcell

**Safe Overload  
Capacity**

150% of maximum capacity

**Stabilization Time**

Within 1 second

**Operating  
Temperature Range**

14°F to 104°F / -10°C to 40°C

**Net Weight**

37.5 lb  
17 kg

60.7 lb  
28 kg

79.4 lb  
36 kg

37.5 lb  
17 kg

60.7 lb  
28 kg

79.4 lb  
36 kg

60.7 lb  
28 kg

i81u812

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