

The OHAUS next generation Defender 5000 Series multifunctional 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: 100 lb x  
 0.005 lb  
 Legal For Trade: 100 lb x 0.02  
 lb  
**Pan Size**  
 24 x 24 in

Manufacture: Ohaus  
**SKU: D52P50RQV5**  
 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 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, silver-painted column, and aluminum load cell. Supports up to 6,250e 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 GLP/GMP output capability with time/date for result traceability. Alibi memory available.
- **Multiple Connectivity Options for Convenient Data Transfer and Storage** Results can be stored in the Micro SD card. Data output via built-in RS232 or optional interfaces including 2nd RS232/RS485/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

### Other Standard Features and Equipment

User-configurable resolution up to 25,000d for general applications and up to 6,250e for legal-for-trade applications (depending on model and unit of measure), 150% overload capacity protection, checkweighing symbols with selectable operation and audible signal settings, menu lock switch, multiple selectable operating

languages, selectable auto-print settings, overload/underload indicators, selectable contrast settings, auto-dim display, auto-off, auto tare, non-slip adjustable rubber feet, a Wheel Kit option is also available for scales up to 300 kg.

## Compliance

- Metrology: Measurement Canada (Indicator: NoA AM-6093, Platforms: NoA AM-6107); NTEP (Indicator: CC 18-065, Platforms: CC 18-077) Class III
- Product Safety: CAN/CSA C22.2 61010-1; UL61010-1; IEC/EN 61010-1
- Electromagnetic Compatibility: FCC Part 15 Class B; Canada ICES-003 Class B; IEC/EN 61326-1 Class B, basic environments
- Compliance Marks: CE, CSA

## Accessories

- Battery Kit, Li-ion, TD52 (30424405)
- USB Host for Dongle, TD52 (30424406)
- Light Tower, 3 Colors, 243mm, IP65 (Requires 30097591) (30424021)
- In-use Cover Kit, TD52P (30424022)
- In-use Cover Kit, TD52XW (30424023)
- In-use Cover set (10), TD52P (30469948)
- In-use Cover set (10), TD52XW (30469949)
- Printer Holder Kit, D52 (30424025)
- Wall Mount Kit, SST, TD52XW (30424026)
- Wall Mount Kit, CS, TD52P (30424027)
- LC Extension Cable, 9 meters, D521 (30424409)
- M16 Gland with Ferrite, to TD52 (30379716)
- Micro SD Card, 8G (30303533)
- Analog Output Kit, TD523 (30424403)
- Second RS232/RS485/USB Kit, TD523 (30424404)
- I/O with Relay (2 In/4 Out)3 (30097591)
- WiFi/BT Dongle, OHAUS2 (Requires 30424406) (30412537)
- Ethernet Kit, D522 (30429666)
- Wheel Kit, Defender Series (for bases up to 300 kg)1 (30372146)
- Impact Printer SF40A (30064203)
- Thermal Printer STP-103 (80251992)

## Specifications

Model	D52P12RQR5 30461648	D52P12RTR5 30461651	D52P25RQR5 30461649	D52P25RTR5 30461652	D52P50RQR5 30461650	D52P50RTR5 30461653	D52P50RQL5 30461654	D52P50RTX5 30461656	D52P50RQV5 30461659
<b>Standard Capacity x Readability</b>	25 x 0.001 lb 12.5 kg x 0.5 g	25 x 0.001 lb 12.5 kg x 0.5 g	50 x 0.002 lb 25 kg x 1 g	50 x 0.002 lb 25 kg x 1 g	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	100 x 0.005 lb 50 kg x 2 g	100 x 0.005 lb 50 kg x 2 g
<b>Legal for Trade Capacity x Readability</b>	25 x 0.005 lb 12.5 kg x 2 g	25 x 0.005 lb 12.5 kg x 2 g	50 x 0.01 lb 25 kg x 5 g	50 x 0.01 lb 25 kg x 5 g	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	100 x 0.02 lb 50 kg x 10 g	100 x 0.02 lb 50 kg x 10 g
<b>Pan Size</b>	12 x 12 in	14 x 12 in	12 x 12 in	14 x 12 in	12 x 12 in	14 x 12 in	18 x 18 in	24 x 18 in	24 x 24 in
<b>Min APW (g)</b>	0.025	0.025	0.05	0.05	0.1	0.1	0.1	0.1	0.1
<b>Legal For Trade</b>	NTEP Class III 5,000 d Indicator: CC 18-065, Platforms: CC 18-077 Measurement Canada Indicator: AM-6093, Platforms: AM-6107								
<b>Internal Counting Resolution</b>	1:500,000								
<b>Linearity/Repeatability</b>	±2d								
<b>Indicator</b>	TD52P ABS Indicator								
<b>Weighing Units</b>	lb, oz, lb:oz, kg, g, metric tonnes, short ton, custom unit								
<b>Application Modes</b>	Weighing, Percent Weighing, Piece Counting with Optimized APW, Checkweighing/Checkcounting, Dynamic Weighing/Display Hold								
<b>Display</b>	Dot matrix LCD with white LED backlight, 256 x 80 pixels								
<b>Keyboard</b>	6 function, 5 quick, 12 alpha numeric membrane switches								
<b>Auto-zero Tracking</b>	Off, 0.5 d, 1 d or 3 d								
<b>Zeroing Range</b>	2% or 100% of capacity								
<b>Interface</b>	Standard RS232 Optional Ethernet, WiFi/Bluetooth, RS232/RS485/USB, Analog Output, 2 In/4 Out Discrete I/O								
<b>Power</b>	100-240 VAC / 50/60 Hz Universal Power Supply, Rechargeable Lithium battery (optional)								
<b>Battery Life</b>	20 hours of continuous use								
<b>Calibration</b>	Zero, Span or 3 point-Linear								
<b>Maximum Overload</b>	150-200% depending on capacity								
<b>Mount</b>	Stainless steel front-mount bracket with handle								
<b>Base Construction</b>	Stainless steel removable weighing platform, powder-coated steel base construction, aluminum loadcell silicon-sealed against moisture								
<b>Safe Overload Capacity</b>	150% of maximum capacity								
<b>Stabilization Time</b>	Within 1 second								
<b>Operating Temperature Range</b>	14°F to 104°F / -10°C to 40°C								
<b>Net Weight</b>	19.8 lb 9 kg	22 lb 10 kg	19.8 lb 9 kg	22 lb 10 kg	19.8 lb 9 kg	22 lb 10 kg	30.9 lb 14 kg	52.9 lb 24 kg	75 lb 34 kg

Model	D52P12RQR5	D52P25RQR5	D52P50RQR5	D52P12RTR5	D52P25RTR5	D52P50RTR5	D52P50RQL5	D52P125RQL5
<b>Pan Size</b>	12 x 12 in 305 x 305 mm			14 x 12 in 355 x 305 mm			18 x 18 in 457 x 457 mm	

<b>Scale Dimensions (A x B x C x D x E x F)</b>	12 x 12 x 3.7 x 2.4 x 4.6 x 23.1 in 305 x 305 x 95 x 60 x 118 x 588 mm	14 x 12 x 3.9 x 2.4 x 4.6 x 25.1 in 355 x 305 x 99 x 60 x 118 x 638 mm	18 x 18 x 4.3 x 2.8 x 4.6 x 28.9 in 457 x 457 x 110 x 70 x 118 x 734 mm
<b>Shipping Dimensions (L x W x H)</b>	18.9 x 17.5 x 14.3 in 480 x 445 x 363 mm		39.1 x 26.8 x 9.25 in 994 x 680 x 235 mm

Model	D52P50RTX5	D52P125RTX5	D52P250RTX5	D52P50RQV5	D52P125RQV5	D52XW250RQV5	D52P125RTV5
<b>Pan Size</b>	24 x 18 in 610 x 457 mm			24 x 24 in 610 x 610 mm			31.5 x 23.6 in 800 x 600 mm
<b>Scale Dimensions (A x B x C x D x E x F)</b>	24 x 18 x 5.1 x 3.5 x 4.6 x 34.9 in 610 x 457 x 130 x 90 x 118 x 887 mm			24 x 24 x 5.1 x 3.5 x 4.6 x 34.6 in 610 x 610 x 130 x 90 x 118 x 880 mm			31.5 x 23.6 x 5.2 x 3.5 x 4.6 x 42.1 in 800 x 600 x 132 x 90 x 118 x 1070 mm
<b>Shipping Dimensions (L x W x H)</b>	39.1 x 26.8 x 9.25 in 994 x 680 x 235 mm			45.9 x 30.7 x 9.25 in 1165 x 780 x 235 mm			

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