





Multifunctional Stainless Steel Washdown Bench Scale for Standard Industrial Applications

The OHAUS next generation Defender 5000 Series multifunctional washdown bench scale is ideal for a multitude of applications, including production, packaging, inventory & 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, IP67 loadcell and IP68 indicator, Defender meets OIML/EC Type approvals.
- 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 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.

Ingeniously Practical

Defender[®] 5000 Washdown Bench Scales

Simplified Use

Results can be read easily on the Defender 5000's large transflective dot matrix display, even in bright sunlight. The SmarText 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

With OIML/EC-type approvals, 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 Percent Weighing, Parts Counting with APW optimization, Checkweighing or Checkcounting 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 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.

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.









Defender[®] 5000 Washdown Bench Scales

Indicator Specifications

	TD52XW
Construction	304 stainless steel with sand blasted surface treatment
Protection	IP68
Weighing Units	lb, oz, lb:oz, kg, g, metric ton, short ton, custom unit
Application Modes	Basic Weighing, Percent Weighing, Piece Counting with Optimized APW, Animal Weighing/Dynamic Weighing, Checkweighing
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, 2 nd RS232/RS485/USB, Analog Output, 2 In/4 Out Digital I/O
Power	100-240 VAC / 50/60 Hz Universal Power Supply, hardwired; Rechargeable Lithium battery (optional)
Battery Life	20 hours of continuous use
Calibration	Zero, Span or 3-point Linear

Front Mount Bench Scale Specifications

Model	D52XW6WQDR5	D52XW15WQDR5	D52XW15WQDL5	D52XW30WQDL5	D52XW60WQDL5
Capacity × Readability	3/6 kg × 0.2/0.5 g	6/15 kg	× 0.5/1 g	15/30 kg × 1/2 g	30/60 kg × 2/5 g
Min APW (g)	0.01 0.02		025	0.05	0.1
Internal Counting Resolution	1:600000			·	
Linearity/Repeatability	± 2d				
Indicator	TD52XW				
Mount	Stainless steel front-mount bracket with handle				
Base Construction	Stainless steel removable weighing platform		tform with stainless steel fram	stainless steel frame, silicon sealed IP67 aluminum loadcell	
Base Dimensions	305 × 3	305 mm 400 × 400 mm			
Safe Overload Capacity	150% of maximum capacity				
Stabilization Time	Within 1 second				
Operating Temperature Range	-10°C to 40°C				
Scale Dimensions (B × A × C × D × E × F)	305 × 305 × 95 × 60 × 118 × 588 mm		400 × 400 × 110 × 70 × 118 × 677 mm		7 mm
Shipping Dimensions $(L \times W \times H)$	480 × 445 × 363 mm		800 × 600 × 235 mm		
Approx. Net Weight	10 kg			17 kg	
Approx. Shipping Weight	11	kg		19 kg	
Model	D52XW60WTDL5	D52XW150WTDL5	D52XW60WQDX5	D52XW150WQDX5]
Capacity × Readability	30/60 kg × 2/5g	60/150 kg × 5/10 g	30/60 kg × 2/5g	60/150 kg × 5/10 g	
Min APW (g)	0.1	0.25	0.1	0.25	
Internal Counting Resolution	1:600000				
Linearity/Repeatability	± 2d				
Indicator	TD52XW				
Mount	Stainless steel front-mount bracket with handle			-	
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction, aluminum loadcell silicon-sealed against moisture				
Base Dimensions	400 × 5	500 mm	500 × 500 mm		-
Safe Overload Capacity	150% of maximum capacity			-	
Stabilization Time	Within 1 second				
Operating Temperature Range	-10°C to 40°C				
Scale Dimensions $400 \times 500 \times 120 \times 8$ (B × A × C × D × E × F) $400 \times 500 \times 120 \times 8$		80 × 118 × 772mm	118 × 772mm 500 × 500 × 120 × 80 × 118 × 772mm		1
Shipping Dimensions $(L \times W \times H)$	994 × 680 × 235 mm				
Approx. Net Weight	20	kg	22 kg]
Approx. Shipping Weight	23 kg		24 kg]

Defender[®] 5000 Washdown Bench Scales

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.

Other Standard Features and Equipment

%

Percent Weighing: Measure the weight of a sample displayed as a percentage of a pre-established reference weight.

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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 and automatically holds the last stable weight on the display.

User-configurable resolution up to dual range 15,000d/3,000e, 150% overload capacity protection, checkweighing symbols with selectable operation and audible signal settings, menu lock switch, multiple selectable operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable adjust contrast settings, auto-dim display, auto-off, auto tare, 304-grade stainless steel platform and frame, stainless steel IP68 indicator, IP67 load cell, non-slip adjustable rubber feet, a Wheel Kit option is also available for scales up to 300 kg/600 lb.

Additional Features

A total of six print templates are available to ensure you can print out all of the data you need. A simple template is predefined for quick printing, as well as five templates you can customize so you can print the exact information necessary for your application - eliminating confusion and time to sift through excess unnecessary data.

Compliance

• Metrology: OIML R76 (Indicators: Certificate R76/2006-A-NL1-18.13; Load Cells: Certificates R60/2000-NL1-12-41, R60/2000-NL1-12-42, R60/2000-NL1-12-43, R60/2000-NL1-14.24)

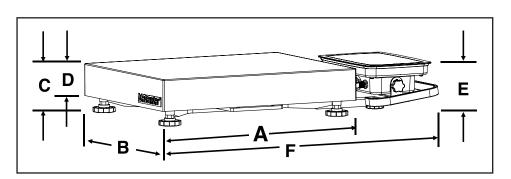
- Product Safety: IEC/EN 61010-1; CAN/CSA C22.2 61010-1; UL61010-1
- Electromagnetic Compatibility: IEC/EN 61326-1 Class B, basic environments; FCC Part 15 Class B; Canada ICES-003 Class B
- Compliance Marks: CE; CSA; RCM

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, D52 ⁷	30424409				

M16 Gland with Ferrite, to TD52	.30379716
Micro SD Card, 8G	.30303533
Analog Output Kit, TD52 ³	.30424403
Second RS232/RS485/USB Kit, TD52 ³	.30424404
I/O with Relay (2 In/4 Out) ³	.30097591
WiFi/BT Dongle, OHAUS ² (Requires 30424406)	.30412537
Ethernet Kit, D52 ²	.30429666
Wheel Kit, Defender Series'	.30372146
Printer SF40A	.30045641

 1 Cannot be used for legal-for-trade applications 2 Only one of them can be used at the same time 3 Only one of them can be used at the same time



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The management system governing the manufacture of this product is ISO 9001:2015 certified.

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