





Multifunctional Bench Scale for Standard Industrial Applications

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, sand gray powder-coated steel frame and aluminum load cell, the 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 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 second RS232/RS485/USB device, Ethernet, Bluetooth/WiFi, Analog Output or 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.

Indicator Specifications

TD52XW
304 stainless steel with sand blasted surface treatment
IP68
lb, oz, lb:oz, kg, g, metric ton, short ton, custom unit
Basic weighing, Percent weighing, Piece Counting with Optimized APW, Animal weighing/Dynamic weighing, Check weighing
Dot matrix LCD with white LED backlight, 256 x 80 pixels
6 function, 5 quick, 12 alpha numeric membrane switches
Off, 0.5 d, 1 d or 3 d
2% or 100% of capacity
Standard RS232, Optional Ethernet, WiFi/Bluetooth, 2 nd RS232/RS485/USB, Analog output, 2 In/4 Out digital I/O
100-240 VAC / 50/60 Hz Universal Power Supply, hardwired, rechargeable lithium battery (Optional)
20 hours continuous use
Zero, Span or 3 point-Linear









Defender[®] 5000 Washdown Bench Scales

Column Mount Bench Scale Specifications

Model	D52XW6WQDR6	D52XW15WQDR6	D52XV	V15WQDL7	D52XW30V	VQDL7	D52XW60WQ	DL7	D52XW60WQDX	7 D52XW150WQDX7
Capacity × Readability	3/6 kg × 0.2/0.5 g 6/12 lb × 0.0005/0.001 lb	6/15 kg 12/30 lb × 0	× 0.5/1 g .001/0.00	2 lb	15/30 kg × 30/60 × 0.002/0.0	lb		30/60 kg × 2/5 g 60/120 lb × 0.005/0.01 lb		
Min APW (g)	0.01	0.0)25		0.05			0.	1	0.25
Internal Counting Resolution					1:6000	00				
Certified Model	D52XW6WQDR6-M	D52XW15WQDR6-M	D52XW	15WQDL7-M	D52XW30W	QDL7-M	D52XW60WQD	L7-M	D52XW60WQDX7	M D52XW150WQDX7-N
Certified Capacity × Readability	3/6 kg × 1/2 g	6/15 kg	kg × 2/5 g		15/30 kg ×	× 5/10 g 30/60 kg		50 kg >	< 10/20 g	60/150 kg × 20/50 g
Min APW (g)	0.05	0	0.1 0.2				0.5			1
Internal Counting Resolution	1:120000	1:150000					1:120000			1:150000
Linearity/Repeatability					± 2d					
Indicator	274	• • • •			TD52X	.W	704 1 1			
Column	374 mm sta						704 mm stainles			1
Base Construction		Stainless steel remo	vable we	5 51				ed IP6	aluminum loadcei	<u> </u>
Safe Overload Capacity				15	50% of maxim		ity			
Stabilization Time					Within 1 se	econa				
Operating Temperature Range	-10°C to 40°C									
Scale Dimensions (B x A x C x D x E x F)	305 × 305 × 95 × 60 × 604 × 442 mm 400 × 400 × 110 × 70 × 934 × 570 mm 500 × 500 × 120 × 80 × 934 × 665							× 80 × 934 × 665 mm		
Shipping Dimensions (L x W x H)	480 × 445 × 363 mm 800 × 600 × 235 mm 994 × 680 × 235 mm							80 × 235 mm		
Approx. Net Weight	10	kg			20 kg					23 kg
Approx. Shipping Weight	11 kg 21 kg 27 kg								27 kg	
Model	D52XW60WQDV	B D52XW150W	QDV8	D52XW30	0WQDV8	D52XV	/150WTDV8	D52	XW300WTDV8	D52XW600WTDV8
Capacity × Readability	30/60 kg × 2/5 g 60/120 lb × 0.005/0.0	60/150 kg × 5 1 lb 120/300 lb × 0.01	9	150/300 kg 300/600 lb ×	5		0 kg × 5/10 g b × 0.01/0.02 lb		300 kg × 10/20 g 00 lb × 0.02/0.05 lb	300/600 kg × 20/50 g 600/1200 lb × 0.05/0.1 lk
Min APW (g)	0.1 0.25 0.5 0.25 0.5 1						1			
Internal Counting Resolution	1:600000									
Certified Model	D52XW60WQDV8-	M D52XW150WQ	DV8-M	D52XW300	WQDV8-M	D52XW	150WTDV8-M	D52)	W300WTDV8-M	D52XW600WTDV8-M
Certified Capacity × Readability	30/60 kg × 10/20 g	g 60/150 kg × 20)/50 g	150/300 kg :	× 50/100 g	60/150	kg × 20/50 g	150/3	800 kg × 50/100 g	300/600 kg × 100/200 g
Min APW (g)	0.5	1	1 2.5		5	1			2.5	5
Internal Counting Resolution	1:120000 1:150000 1:120000 1:150000 1:120000								0000	
Linearity/Repeatability	± 2d									
Indicator	TD52XW									
Column	1004 mm stainless steel									
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon sealed IP67 aluminum loadcell									
Safe Overload Capacity	150% of maximum capacity									
Stabilization Time	Within 1 second									
Operating Temperature Range	-10°C to 40°C									
Scale Dimensions	610 × 610 × 130 × 90 × 1234 × 773 mm 600 × 800 × 132 × 90 × 1234 × 963 mm									
$(B \times A \times C \times D \times E \times F)$	61	0 × 610 × 130 × 90 × 1	1254 / //							
	61	0 × 610 × 130 × 90 × 1			1165 × 780 >	< 235 mm	1			
(B x A x C x D x E x F) Shipping Dimensions	61	0 × 610 × 130 × 90 × 1 37 kg			1165 × 780 >	< 235 mm)		45 kg	

Defender[®] 5000 Washdown Bench Scales

Application Modes



in the selected unit of measure.

Weighing: Determine the weight of items

weight as the overall weight increases.



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



Parts Counting: Count samples of uniform weight. Advanced auto-optimization software recalculates the average piece of



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

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, ABS plastic, 100-240 VAC 50/60 Hz internal universal power supply - Lithium Ion rechargeable battery with 20 hour standard continuous use (optional), non-slip adjustable rubber feet, a Wheel Kit option is also available for scales up to 300 kg.

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, R-Y-G, IP65, 24VDC	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 TD5230379716
Micro SD Card, 8G
Analog Output Kit, TD52 ³ 30424403
Second RS232/RS485/USB Kit, TD52 ³ 30424404
I/O with Relay (2 In/4 Out) ³
WiFi/BT Dongle, OHAUS ² (Requires 30424406)
Ethernet Kit, D52 ² 30429666
Wheel Kit, Defender Series'
Printer SF40A

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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