

Defender® 5000

Standard Bench Scales



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.





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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.



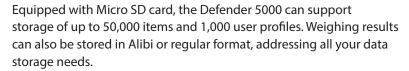
Durable Construction

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.





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

	TD52P	TD52XW			
Construction	ABS plastic	304 stainless steel with sand blasting surface treatment			
Protection	N/A	IP68			
Weighing Units	kg, g, lb, oz, lb:oz, metric tonnes, short ton, custom unit				
Application Modes	Basic weighing, Percent weighing, Piece Counting with Optimized APW, Animal weighing/Dynamic weighing, Check weighing				
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 digital I/O				
Power	100-240 VAC / 50/60 Hz Universal Power Supply, Rechargeable Lithium battery (Optional)				
Battery Life	20 hours continuous use				
Calibration	Zero, Span or 3 point-Linear				

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D52P:39 kg / D52XW: 40 kg

D52P:42 kg / D52XW: 43 kg

(B x A x C x D x E x F)
Shipping Dimensions

Approx. Shipping Weight

(L x W x H)

Approx. Net Weight

Column Mount Bench Scale Specifications

M . J.J	D52P6RQDR1	D52P15RQDR1	D52P15RQDL2	D52P30	DRQDL2	D52P60RQ	DL2	D52P60RQDX2	D52P150RQDX2		
Model	D52XW6RQDR1	D52XW15RQDR1	D52XW15RQDL2	D52XW3	ORQDL2	D52XW60R0	QDL2	D52XW60RQDX	2 D52XW150RQDX2		
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		30/6	0 kg × 1/2 g 30/60 lb 30/20.005 lb 30/60 lb 60/120 lb × 0.0			60/150 kg × 5/10 g 120/300 lb × 0.01/0.02 lb			
Min APW (g)	0.01	0.0	25	0.	05		0.	.1	0.25		
Internal Counting Resolution				1:60	1:600000						
	D52P6RQDR1-M D52P15RQDR1-M		D52P15RQDL2-M	52P15RQDL2-M D52P30RQDL2-M		D52P60RQDL2-M D52P60RQDX2-			M D52P150RQDX2-M		
Certified Model	D52XW6RQDR1-M	D52XW15RQDR1-M	D52XW15RQDL2-M	D52XW30	RQDL2-M	D52XW60RQI	DL2-M	D52XW60RQDX2	-M D52XW150RQDX2-N		
Certified Capacity × Readability	3/6 kg x 1/2 g	6/15 kg	x 2/5 g	15/30 kg	x 5/10 g	30/60 kg x 10/20 g		60/150 kg x 20/50 g			
Min APW (g)	0.05	0	.1	0.	25		0.	.5	1		
Internal Counting Resolution	1:120000	1:15	0000	1:120000					1:150000		
Linearity/Repeatability				± 2d							
Indicator		D52Pxxxx: TD52P ABS Indicator D52XWxxxx: TD52XW Stainless Steel Indicator									
Column	350 mm powdei	r-coated steel			68	0 mm powder-c	oated ste	eel			
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction, aluminum loadcell silicon sealed against moisture							st moisture			
Safe Overload Capacity	150% of maximum capacity										
Stabilization Time	Within 1 second										
Operating Temperature Range	-10°C to 40°C										
D52P Scale Dimensions (B x A x C x D x E x F)	305 × 305 × 95 × 60	× 574 × 442 mm	400 × 400 × 110 × 70 × 903 × 570 mm 500 × 500 × 120 × 80 × 903 × 665						0 × 80 × 903 × 665 mm		
D52XW 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 × 93					0 × 80 × 934 × 665 mm			
Shipping Dimensions (L x W x H)	480 x 445 x	363 mm	800 x 600 x 235 mm						994 x 680 x 235 mm		
Approx. Net Weight	D52P:10 kg / D	52XW: 11 kg	1	D52P:17 kg /	D52XW: 18 k	g		D52P:24 I	D52P:24 kg / D52XW: 26 kg		
Approx. Shipping Weight	D52P:11 kg / D	52XW: 12 kg	D52P:19 kg / D52XW: 21 kg D52P:27 kg / D52XW: 28 kg						kg / D52XW: 28 kg		
Model	D52P60RQDV3	D52P150RQD	V3 D52P300	RQDV3	D52P1	50RTDV3	D5	52P300RTDV3	D52P600RTDV3		
	D52XW60RQDV3	D52XW150RQI		-	D52XW	150RTDV3	D52	2XW300RTDV3	D52XW600RTDV3		
Capacity × Readability	30/60 kg × 2/5 g 60/120 lb × 0.005/0.01 lb	60/150 kg × 5/1 120/300 lb × 0.01/				kg × 5/10 g × 0.01/0.02 lb			300/600 kg x 20/50 g 600/1200 lb x 0.05/0.1 lb		
Min APW (g)	0.1	0.25	0.5	<u> </u>		0.25 0.5 1					
Internal Counting Resolution				1:60	000						
Certified Model	D52P60RQDV3-M	D52P150RQDV	3-M D52P300R	QDV3-M	D52P15	ORTDV3-M	D52	P300RTDV3-M	D52P600RTDV3-M		
Certified Moder	D52XW60RQDV3-M	D52XW150RQD	/3-M D52XW300I	RQDV3-M	D52XW1	50RTDV3-M	D52)	KW300RTDV3-M	D52XW600RTDV3-M		
Certified Capacity × Readability	30/60 kg x 10/20 g	60/150 kg x 20/5	50 g 150/300 kg >	c 50/100 g	60/150 k	kg × 20/50 g	150/3	800 kg × 50/100 g	300/600 kg × 100/200 g		
Min APW (g)	0.5	1	2.5	;		1		2.5	5		
Internal Counting Resolution	1:120000	1:150000	1:1200	000	1:1	1:150000 1:12000		0000			
Linearity/Repeatability		•	·	±	2d						
Indicator		D5:	2Pxxxx: TD52P ABS Indi	cator D52X\	Wxxxx: TD52	XW Stainless Ste	el Indica	tor			
Column			98	30 mm powd	er-coated ste	eel					
Base Construction	Stainless	steel removable weigh	ning platform, powder-c	coated steel b	ase construc	tion, aluminum	loadcell	silicon sealed again	st moisture		
Safe Overload Capacity	150% of maximum capacity										
Stabilization Time	Within 1 second										
Operating Temperature Range	-10°C to 40°C										
D52P Scale Dimensions (B x A x C x D x E x F)	610 × 610 × 130 × 90 × 1203 × 773 mm 600 × 800 × 132 × 90 × 1203 × 963 mm						3 mm				
D52XW Scale Dimensions	610 × 610 × 130 × 90 × 1234 × 773 mm 600 × 800 × 132 × 90 × 1234 × 963 mm							3 mm			

1165 x 780 x 235 mm

D52P:47 kg / D52XW: 48 kg

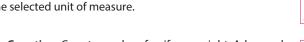
D52P:51 kg / D52XW: 52 kg

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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 and automatically holds the last stable weight on the display.

Other Standard Features and Equipment

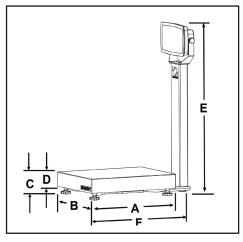
User-configurable resolution up to dual range 15,000d/3,000e, 150% overload capacity protection, checkweighing symbols with selectable operation and audible signal settings, menu lock switch, multiple selectable operating languages, selectable environmental and auto-print settings, stability indicator, 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 lon 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, 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'	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
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