

Defender™ 5000XW

Xtreme Square Washdown Scales



Smart Functionality, Durability, OHAUS Quality and Value

The OHAUS Defender™ 5000 Series is a feature-rich line of bench scales, combining a stainless steel D51XW indicator with a square, all-stainless steel washdown base and a stainless steel column. Ideal for production, packaging and general commercial and industrial weighing applications where full washdown protection is required, the Defender 5000 offers a multifunctional indicator with multiple weighing units and software modes to meet the requirements of industrial and lab applications. With rugged steel construction, comprehensive yet intuitive software and multiple connectivity options, the Defender 5000 can meet the needs of demanding industrial operations.

Standard Features Include:

- All stainless-steel construction with IP66/NEMA4X protection for indicator, with loadcells protected to IP67
- 10,000-12,500d default resolution
- 1:5,000 NTEP Certified / Measurement Canada Approved resolution
- Quick display of results using large LCD with high-contrast white backlight
- Temporary display of 10x readability in weighing mode with quick key press
- Easy to operate with 4-key membrane keypad with raised tactile keys
- Weighs in one or more units: kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- Multiple weighing modes including Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, and Display Hold.
- Internal universal switching power supply with hardwired line cord optional NiMH internal rechargeable power pack available
- Includes RS232 interface with GMP/GLP data output including date and time
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS422/485

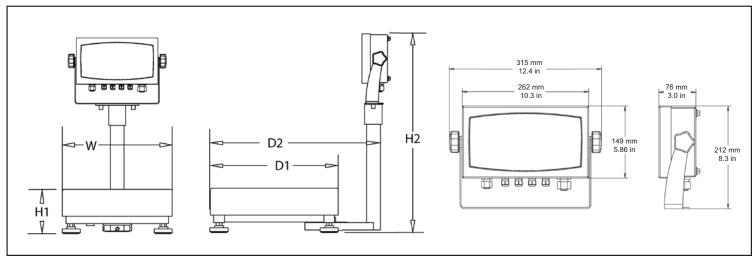
Defender 5000XW Xtreme Square V

The Defender 5000 Offers Multiple Features and Easy Configuration:

To meet different operational needs, the Defender 5000 includes a suite of configurable software:

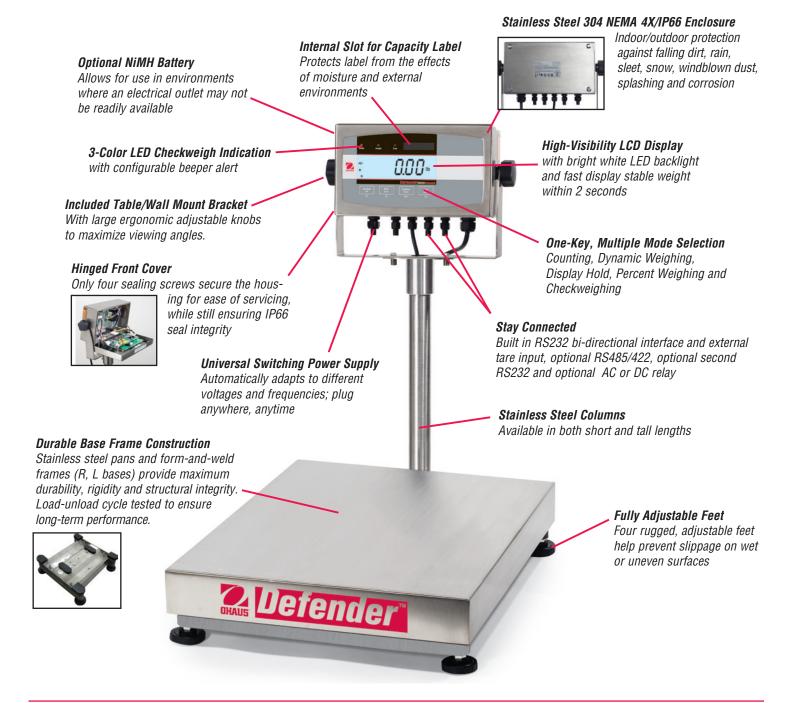
- Counting mode for packaging and inventory control, enabling counting into a container or out of a container for bulk operations. Supports a maximum counting resolution to 1:300,000 (minimum APW equal to 0.1d), selectable autooptimization of average piece weight (APW). APW data can be displayed at any time using a quick key press.
- Percent Weighing mode for formulation and mixing applications, with display of reference weight with quick key press.
- Dynamic/Animal Weighing with selectable weigh times from 0-60 seconds
- Checkweighing function for packaging and weight checking, with display of results using LCD display and red/yellow/green LEDs. Audible beeper can be configured to prompt when weight is within range, under, over, or under or over range. Target weight values can be displayed at any time using a quick key press.
- Display Hold mode for weighing large packages holds last stable weight on display until cleared
- The Defender 5000 weighs in one or more user-selectable units: kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- It supports GMP/GLP data output with date, time user ID, project ID and scale ID. The Defender 5000 features selectable print options for data and print format
- To limit operator access to functions, the Defender 5000 offers both software lockouts for menu items as well as individual key functions.

Outline Dimensions



Vashdown Scales

Standard Features:



Options and Accessories

Interface Options	OHAUS Number
AC Relay Kit	80500720
DC Relay Kit	80500727
RS485/422 Interface Kit	80500731
Second RS232 Interface Kit	80500733
Foot Switch	71173378
Power Options	
Rechargeable Battery Kit, T51P/T51XW	80500729

Other Accessories	OHAUS Number
Compact Dot Matrix Impact Printer	80252042
Compact Thermal Printer	80251992
OHAUS Collect Software	80500746
TAL Software WinWedge	SW12W
Paper for Printer, 80252042 (1 roll)	80251932
Ribbon for Printer, 80252042	80251933
RS232 Cable & Adapter, 80252042 Printer to T51XW	80252574
RS232 Cable, PC 9 Pin to T51XW	80500552
RS232 Cable, PC 25-pin to T51XW	80500553

DefenderTM 5000XW Xtreme Scales

Specifications

Model	D51XW10WR3	D51XW25WR3	D51XW50WL4	D51XW100WL4	D51XW250WX4		
Capacity x Default Readability	25 lb x 0.002 lb 400 oz x 0.05 oz 25 lb : 0.05 oz 10 kg x 0.001 kg 10,000 g x 1 g	50 lb x 0.005 lb 800 oz x 0.1 oz 50 lb x 0.1 oz 25 kg x 0.002 kg 25,000 g x 2 g	100 lb x 0.01 lb 1,600 oz x 0.2 oz 160 lb : 0.2 oz 50 kg x 0.005 kg 50,000 g x 5 g	250 lb x 0.02 lb 4,000 oz x .5 oz 250 lb : .5 oz 100 kg x 0.01 kg 100,000 g x 10 g	500 lb x 0.05 lb 8,000 oz x 1 oz 500 lb : 1 oz 250 kg x 0.02 kg 250,000 g x 20 g		
Maximum Displayed Resolution	1:10,000	1:12,500	1:10,000	1:10,000	1:12,500		
Capacity x Certified/Approved Readability	25 lb x 0.005 lb 10 kg x 0.002 kg	50 lb x 0.01 lb 25 kg x 0.005 kg	100 lb x 0.02 lb 50 kg x 0.01 kg	250 lb x 0.05 lb 100 kg x 0.02 kg	500 lb x 0.10 lb 250 kg x 0.05 kg		
Maximum Certified Resolution	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000		
Indicator Model	T51XW						
Column	13.8 in / 350 mm stainless steel 26.8 in / 680 mm stainless steel						
Construction	Stainless steel indicator, removable weighing platform, column, base construction and loadcell						
Safe Overload Capacity	150% of maximum capacity						
Protection	NEMA 4X/IP66 for indicator, IP67 for loadcell						
Weighing Units	lb, oz, lb:oz, kg, g, metric tonnes, custom unit						
Modes	Static Weighing, Dynamic Weighing, Counting, Checkweighing, Percent Weighing, Display Hold						
Display	1 in / 25mm high 6-digit, 7-segment bright white backlit LCD						
Keyboard	4-button membrane switch						
Stabilization Time	Within 2 seconds						
Auto-zero Tracking	Off, 0.5, 1 or 3 d						
Zeroing Range	2% or 100% of capacity						
Calibration	Span: 1kg or 1lb to 100% of capacity / 3-point linearity (0-50% – 100% fixed)						
Power	100-240 VAC / 50-60Hz internal universal power supply						
Interface	RS232 and external tare input						
Operating Temperature Range	14°F to 104°F / -10°C to 40°C						
Shipping Dimensions (L x W x H)	19.3 x 16.1 490 x 410 x		31.2 x 23.6 x 810 x 600 x 2		39.4 x 29.9 x 9.8 in 1000 x 760 x 250 mm		
Scale Dimensions (W x H1 x H2 x D1 x D2)	12 x 3.7 x 23.2 305 x 95 x 590 x		18 x 4.5 x 37 x 1 457 x 115 x 940 x 4		24x5.4x37x24x28.7 in 610 x 137 x 940 x 610 x 730 mm		
Net Weight	35.5 lb /	16.1 kg	69.6 lb / 3 ⁻	1.6 kg	86.8 lb / 39.4 kg		
Shipping Weight	40.8 lb /		74.5 lb / 33	3.8 kg	100.9 lb / 45.8 kg		

Features

Stainless steel water resistant NEMA 4X / IP66 housing, integral faceplate supports for easy servicing, backlit LCD weight display, checkweighing indication (green, yellow, red), membrane keypad with raised tactile keys, built-in bi-directional RS232 with manual/continuous/interval printing, external tare input, hardware configuration lockout switch, internal switching power supply with hardwired cord.

Other Features

Zero point calibration, calibration test, span or linear calibration, selectable auto-zero tracking range, selectable stability range, selectable averaging level, selectable LCD backlight, selectable auto shutoff, retain zero weight data after power-off, Geo gravity adjustment, selectable key beep, key function lock, menu lock, selectable power-on and calibration unit, battery status display, display of gross/net weight, indication of stability, center of zero, over-and underweight, overload and underload conditions. Configuration menus for PRINT1, PRINT2, COM1, COM2, and I/O.

Compliance

- Legal for Trade: NTEP (CC No. 08-039 for indicator; 01-048A1 for bases); Measurement Canada (Approval No. AM-5687 for indicator; AM-5719 for bases)
- Safety and EMC: _UL_is 2005/95/EC low voltage directive: EN60950-1:2001, FCC Part 15 Class A 2004/108/EC
- Other: Compliant to Directive 202/96/EC on waste electrical and electronic equipment (WEEE)
- OHAUS quality management system registered to ISO 9001:2008

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With offices throughout Europe, Asia, and Latin America

* ISO 9001

Registered Quality Management System

