



# 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
- NTEP 1:5,000 certified 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 Scales

## Specifications

Model	D51XW10WR3	D51XW25WR3	D51XW50WL4	D51XW100WL4	D51XW250WX4
Capacity (max) x Default Readability (d)	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	1:10000	1:12500	1:10000	1:10000	1:12500
NTEP Capacity (max) x Certified Readability	25 lb x 0.005 lb 10 kg x 0.002 kg 400 oz x 0.1 oz	50 lb x 0.01 lb 25 kg x 0.005 kg 800 oz x 0.2 oz	100 lb x 0.02 lb 50 kg x 0.01 kg 1,600 oz x 0.5 oz	250 lb x 0.05 lb 100 kg x 0.02 kg 4,000 oz x 1 oz	500 lb x 0.10 lb 250 kg x 0.05 kg 8,000 oz x 2 oz
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 x 17.3 in 490 x 410 x 440 mm		31.2 x 23.6 x 9.5 in 810 x 600 x 240 mm		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 x 12 x 16.7 in 305 x 95 x 590 x 305 x 425 mm		18 x 4.5 x 37 x 18 x 22.7 in 457 x 115 x 940 x 457 x 577 mm		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 / 31.6 kg		86.8 lb / 39.4 kg
Shipping Weight	40.8 lb / 18.5 kg		74.5 lb / 33.8 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

- NTEP certified (CC No. 08-039 for indicator; 01-048A1 for bases)
- **Safety and EMC:** UL<sub>us</sub> 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 9001:2000

## OHAUS CORPORATION

\* 19A Chapin Road  
P.O. Box 2033  
Pine Brook, NJ 07058 USA

Tel: 800.672.7722  
973.377.9000

Fax: 973.944.7177

www.ohaus.com

With offices throughout Europe,  
Asia, and Latin America

\* **ISO 9001**  
Registered Quality Management System

