Document hosted by www.oldwillknottscales.com



Defender™ 5000

Square Scales



Counting function is not legal for trade

Smart Functionality, Durability, OHAUS Quality and Value

The OHAUS Defender[™] 5000 Series is a feature-rich line of bench scales, combining an ABS plastic T51P indicator with square, painted steel base and column. Ideal for shipping and receiving, production, packaging and general commercial and industrial weighing applications, 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 construction, comprehensive yet intuitive software and multiple connectivity options, the Defender 5000 can meet the needs of demanding industrial operations.

Standard Features Include:

- Painted steel base with ABS indicator
- 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 using 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 power supply with universal line cord or 6 "C" batteries (80 hour battery life) optional NiMH internal rechargeable power pack available
- Includes RS232 interface with GMP/GLP data output including date and time
- Base and indicator connected using quick connect plug
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS485/422

Document hosted by www.oldwillknottscales.com

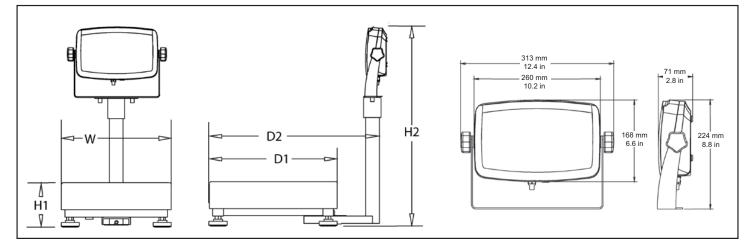
Defender™ 5000 Square Scales

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 auto-optimization 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
- 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



Standard Features:

High-Visibility LCD Display with bright white LED backlight and fast display stable weight within 2 seconds

3-Color LED Checkweigh Indication with configurable beeper alert

Simple Plug-In Battery Installation



Use six C- alkaline batteries or the optional NiMH battery

Included Table/Wall Mount Bracket 🕇

With large ergonomic adjustable knobs to maximize viewing angles. A ratchet-type angle adjustment with metal inserts ensure



that viewing angles are set securely, and lasts a long time even with frequent adjustments

Universal Switching Power Supply



100-240 VAC with AC line cord; no need for an external AC adapter!

2 Defender

Painted Steel Columns ______ Available in both short and tall lengths

Internal Slot for Capacity Label Protects label from the effects of moisture and external environments

000

Reversible Rear Housing

Cables can exit above (table or front scale mounting) or below (wall or bench scale mounting) for convenient mounting. Front scale mounting with available accessory. Internal structural ribs provide strength and minimize flexing.





One-Key, Multiple Mode Selection Counting, Dynamic Weighing, Display Hold, Percent Weighing and Checkweighing

Stay Connected

Built in RS232 bi-directional interface and external input, optional RS422/485, optional second RS232 and optional AC or DC relay

Plug-in Load Cell Connector

Allows for simple connection to Defender bases or directly to terminal block.



- Durable Base Frame Construction Stainless steel pans and painted steel form-and-weld frames (R, L bases) provide maximum durability, rigidity and structural integrity. Load-unload cycle tested to ensure

long-term performance.



Options and Accessories

Fully Adjustable Feet

or uneven surfaces

Four rugged, adjustable feet

help prevent slippage on wet

Interface Options AC Relay Kit DC Relay Kit RS485/422 Interface Kit Second RS232 Interface Kit	80500727 80500731 80500733
Foot Switch <i>Power Options</i> Rechargeable Battery Kit, T51P/T51XW	

DefenderTM 5000 Square Scales

c			::::		-		
J	μ	eυ		U	aı	.10	ns

Model	D51P10QR1	D51P25QR1	D51P50QL2	D51P100QL2	D51P250QX2			
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	T51P							
Column	13.8 in / 350 mm painted steel 26.8 in / 680 mm painted steel							
Construction	ABS plastic indicator, stainless steel removable weighing platform, painted steel column and base construction, aluminum loadcell							
Safe Overload Capacity	150% of maximum capacity							
Protection	Dry use for scale, 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, 6 'C' cell batteries (not supplied) with 80 hour life							
Interface	RS232 and external input							
Operating Temperature Range	14°F to 104°F / -10°C to 40°C							
Shipping Dimensions (L x W x H)		1 x 17.3 in x 440 mm	31.2 x 23. 810 x 600		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)			18 x 4.5 x 37 457 x 115 x 940		24 x 5.4 x 37 x 24 x 28.7 in 610 x 137 x 940 x 610 x 730 mm			
Net Weight	32.4 lb	32.4 lb / 14.7 kg		30.2 kg	83.8 lb / 38.0 kg			
Shipping Weight	37.7 lb	/ 17.1 kg	71.4 lb /	32.4 kg	97.9 lb / 44.4 kg			

Features

T51P: ABS plastic housing with internal rib reinforcements, reversible rear cover, 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 line cord and battery power using 6 "C" cell batteries.

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 (Made from Certified/Approved weighing components): 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_{us} 2005/95/EC low voltage directive: EN60950-1:2001, FCC Part 15 Class A 2004/108/EC EMC directive: EN61326-1:1997; +A1:1998; +A2:2001; + A3>2003
- Other: Compliant to Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)
- Quality: OHAUS quality management system registered to ISO 9001:2008

OHAUS CORPORATION

* 7 Campus Drive Suite 310 Parsippany, NJ 07054 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

© Copyright Ohaus Corporation

30774411_F

