

Defender™ 5000

Square Semi-Washdown Scales



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, 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 of the base 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 construction, comprehensive yet intuitive software and multiple connectivity options, the Defender 5000 can meet the needs of demanding industrial operations.

Standard Features Include:

- Stainless 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 guick connect plug
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS485/422

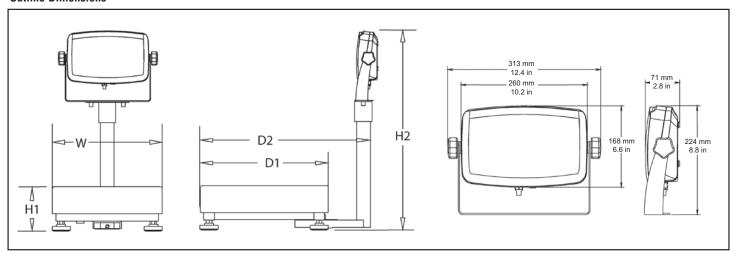
Defender 5000 Square Semi-Washdov

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
- 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:

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 last 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!

High-Visibility LCD Display with bright white LED back-

light and fast display stable

weight within 2 seconds

Stainless Steel Columns

Available in both short and tall lengths

Fully Adjustable Feet Four rugged, adjustable feet help prevent slippage on wet

or uneven surfaces



Label Protects label from Reversible Rear Housing

Internal Slot for Capacity

the effects of moisture and

external environments

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 SelectionCounting, 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.



Stainless steel pans and 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

| Interface Options | OHAUS Number |
|--------------------------------------|--------------|
| AC Relay Kit | 80500720 |
| DC Relay Kit | 80500727 |
| RS422/485 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 T51P | 80252571 |
| RS232 Cable, PC 9-pin to T51P | 80500525 |
| RS232 Cable, PC 25-pin to T51P | 80500524 |

DefenderTM 5000 Semi-Washdown Scales

Specifications

| Model | D51P10WR3 | D51P25WR3 | D51P50WL4 | D51P100WL4 | D51P250WX4 | | |
|--|---|---|---|---|---|--|--|
| 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 1600 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 4000 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 8000 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 stainless steel 26.8 in / 680 mm stainless steel | | | | | | |
| Construction | ABS plastic indicator, stainless steel removable weighing platform, loadcell, column and base construction | | | | | | |
| Safe Overload Capacity | 150% of maximum capacity | | | | | | |
| Protection | Dry use for indicator, IP67 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 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 | | 31.2 x 23. 810 x 600 x | | 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 457 x 115 x 940 x | | 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 / | 14.7 kg | 66.6 lb / | 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, overand 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: Safety and EMC: LUL 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)
- Quality: OHAUS quality management system registered to ISO 9001:2008

DISTRIBUTED BY:



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