

Defender™ 7000

Advanced Low Profile Scales

Countina function is not legal for trade



Advanced Smart Functionality, Durability, OHAUS Quality and Value

The OHAUS Defender™ 7000 Series is a feature-rich line of bench scales, combining an ABS plastic T71P indicator with painted steel bases and mounting brackets. Ideal for shipping and receiving, production, packaging and general commercial and industrial weighing applications, the Defender 7000 offers a multifunctional indicator with multiple weighing units, alpha-numeric keypad 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 7000 can meet the needs of demanding industrial operations.

Standard Features Include:

- Painted steel bases with ABS indicator
- 10,000-12,500d default resolution for square bases, 5,000-7,500d default resolution for rectangular bases
- 1:5,000 certified resolution for square bases; up to 1:3,000 for rectangular bases
- Quick display of results using large dual line LCD with high-contrast white backlight
- Temporary display of 10x readability in weighing mode using guick key press
- Easy to operate with positive feedback 5-function key and alpha-numeric membrane keypad
- Weighs in one or more units: kg, g, lb, oz, lb:oz (decimal), tonnes and user-definable custom unit
- Multiple weighing modes including Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, Display Hold, and Accumulation
- 255 item Library data storage function
- 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, and external analog base input for dual-base counting
- Base and indicator connected using guick connect plug
- Options include DC relay control kit, AC relay control kit, RS485/422 and 2nd RS232 interfaces, Alibi memory module

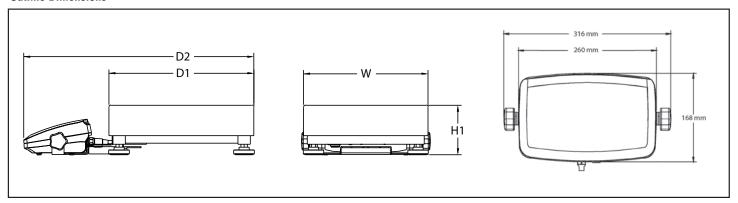
DefenderTM 7000 Advanced Low Profile

The Defender 7000 Offers Multiple Features and Easy Configuration:

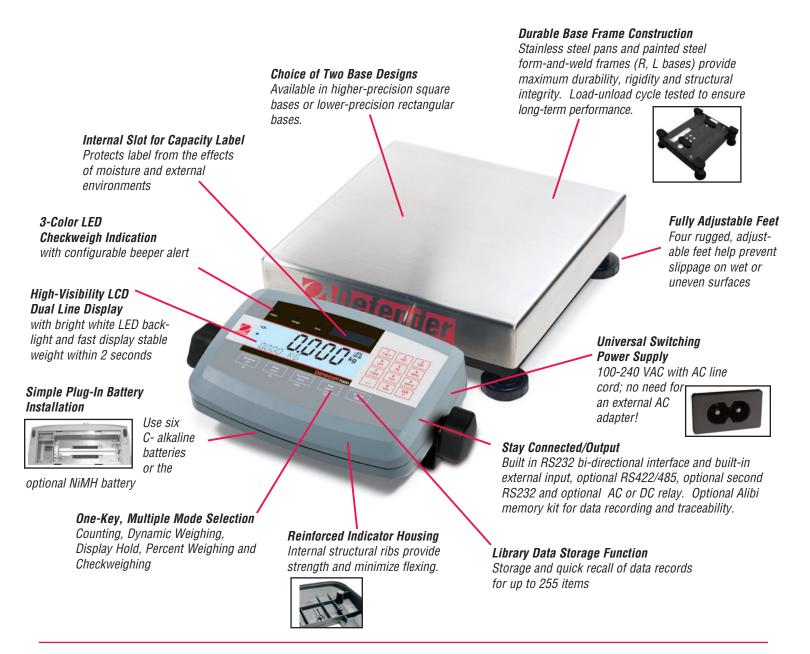
To meet different operational needs, the Defender 7000 includes a suite of configurable software:

- 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 1:500,000 (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 averaging times from 0-60 seconds.
- Checkweighing function for count 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 values can be displayed at any time using a guick key press.
- Display Hold mode for weighing large packages, holds last stable weight on display until cleared manually or automatically
- The Defender 7000 weighs in one or more user-selectable units: kg, g, lb, oz, lb:oz (decimal), tonnes and user-definable custom unit
- Supports GMP/GLP data output with date, time user ID, project ID and scale ID. The Defender 7000 features selectable print options for data and print format
- To limit operator access to functions, the Defender 7000 offers both software lockouts for menu items as well as individual key functions.
- Library storage for up to 255 memory records that may contain data from a combination of different modes. These reference data can be quickly and conveniently recalled for use with the active mode.
- Multi-language feature allows the user to display operation and menu text in the language of their choice: English, Spanish, French, German, Italian. This allows for convenience and ease of training and operation of the Defender 7000.
- Accumulation mode with statistics feature allows totalizing weight and count values manually or automatically. The total
 accumulated value is displayed in real-time. With the press of the "Info" key, the number of weighments, average, standard
 deviation, minimum, maximum and difference are displayed. These statistical values can also be printed.
- Dual scale connections are built-in for 2-scale counting configuration. Connect two bases, a higher resolution base to optimize average piece weight, in conjunction with a large capacity base to weigh/count in bulk.
- Store, view and print over 262,000 date and time-stamped weighing results with the optional Alibi memory kit.

Outline Dimensions



Standard Features:



Options and Accessories

Interface Options	OHAUS Number
AC Relay Kit	80500720
DC Relay Kit	
RS485/422 Interface Kit	80500731
Second RS232 Interface Kit	80500733
Foot Switch	71173378
Power Options Rechargeable Battery Kit, T71P/T71XW	80500729

Other Accessories	OHAUS Number
Compact Dot Matrix Impact Printer	80252042
Compact Thermal Printer	80251992
OHAUS Collect Software	80500746
Alibi Memory Option Kit	80500503
TAL Software WinWedge	SW12W
Paper for Printer, 80252042 (1 roll)	80251932
Ribbon for Printer, 80252042	80251933
RS232 Cable & Adapter, 80252042 Printer to T71P	80252571
RS232 Cable, PC 9-pin to T71	80500525
RS232 Cable, PC 25-pin to T71P	80500524

DefenderTM 7000 Low Profile Scales

Low-Profile Square Scales

Model	D71P10QR5	D71P25QR5	D71P50QL5	D71P100QL5	D71P250QX5	
Capacity (max) x Default Readability (d)	25 lb x 0.002 lb	50 lb x 0.005 lb	100 lb x 0.01 lb	250 lb x 0.02 lb	500 lb x 0.05 lb	
	400 oz x 0.05 oz	800 oz x 0.1 oz	1600 oz x 0.2 oz	4000 oz x .5 oz	8000 oz x 1 oz	
	25 lb: 0.05 oz	50 lb x 0.1 oz 100 lb : 0.2 oz		250 lb : .5 oz	500 lb : 1 oz	
	10 kg x 0.001 kg)1 kg 25 kg x 0.002 kg 50 kg x 0.005 kg 100 kg x 0		100 kg x 0.01 kg	250 kg x 0.02 kg	
	10000 g x 1 g	25000 g x 2 g	50000 g x 5 g	100000 g x 10 g	250000 g x 20 g	
Maximum Displayed Resolution	1:12500	1:12500	1:10000	1:12500	1:12500	
Scale Dimensions	12 x 3.7 x 12 x 20.8 in		18 x 4.5 x 18 x 26.8 in		24 x 5.4 x 24 x 32.8 in	
(W x H1 x D1 x D2)	305 x 95 x 305 x 530 mm		457 x 115 x 457 x 680 mm		610 x 137 x 610 x 833 mm	
Capacity x	25 lb x 0.005 lb	50 lb x 0.01 lb	100 lb x 0.02 lb	250 lb x 0.05 lb	500 lb x 0.10 lb	
Certified/Approved Readability	10 kg x 0.002 kg	25 kg x 0.005 kg	50 kg x 0.01 kg	100 kg x 0.02 kg	250 kg x 0.05 kg	
Maximum Certified Resolution	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	
Shipping Dimensions (L x W x H)	19.3 x 16.1 x 17.3 in		31.2 x 23.6 x 9.5 in		39.4 x 29.9 x 9.8 in	
	490 x 410 x 440 mm		810 x 600 x 240 mm		1000 x 760 x 250 mm	
Net Weight	30.6 lb / 13.9 kg		63.7 lb / 28.9 kg		80.9 lb / 36.7 kg	
Shipping Weight	35.9 lb / 16.3 kg		68.5 lb / 31.1 kg		95.0 lb / 43.1 kg	

Low-Profile Rectangular Scales

Low-Flottie nectallythat Scales							
Model	D71P15HR5	D71P30HR5	D71P60HR5	D71P60HL5	D71P100HL5	D71P150HX5	D71P300HX5
Capacity (max) x Default Readability (d)	30lb x 0.005lb	60lb x 0.01lb	150lb x 0.02lb		250lb x 0.05lb	300lb x 0.05lb	600lb x 0.1lb
	480oz x 0.1oz	960oz x 0.2oz	0.2oz 2400oz x 0.5oz		4000oz x 1oz	4800oz x 1oz	9600oz x 2oz
	30lb : 0.1oz	60lb x 0.2oz	60lb x 0.2oz 150lb : 0.5oz		250lb : 1oz	300lb : 1oz	600lb : 2oz
	15kg x 0.002kg	30kg x 0.005kg	0kg x 0.005kg 60kg x 0.01kg		100kg x 0.02kg	150kg x 0.02kg	300kg x 0.05kg
	15000g x 2g	30000g x 5g	60000g x 5g 60000g x 10g		100000g x 20g	150000g x 20g	300000g x 50g
Maximum Displayed Resolution	1:7500	1:6000	1:7	500	1:5000	1:7500	1:6000
Scale Dimensions	12 x 3.7 x 14 x 22.8 in		15.7 x 4.1 x 19.7 x 28.5 in		16.5 x 4.9 x 21.7 x 30.5 in		
(W x H1 x D1 x D2)	305 x 95 x 355 x 580 mm		400 x 105 x 500 x 725 mm		420 x 125 x 550 x 775 mm		
Shipping Dimensions (L x W x H)	19.3 x 16.1 x 17.3 in		29.1 x 27.2 x 9.1 in		29.5 x 30 x 9.1 in		
	4	490 x 410 x 440 mm		740 x 690 x 230 mm		750 x 710 x 230 mm	
Net Weight	23.6 lb / 10.7 kg		46.3 lb / 21.0 kg		58.2 lb / 26.4 kg		
Shipping Weight	35.9 lb / 12.7 kg		53	.6 lb / 24.3 kg	64.8 lb /	29.4 kg	

General Specifications	
Indicator Model	T71P
Construction	ABS plastic indicator, stainless steel removable weighing platform, aluminum loadcell, painted steel mounting bracket and base construction
Safe Overload Capacity	150% of maximum capacity
Weighing Units	lb, oz, lb:oz, kg, g, custom unit
Modes/Features	Static Weighing (single or dual range), Dynamic Weighing, Counting, Checkweighing, Percent Weighing, Display Hold, Accumulation, Library
Display	6-digit, 7-segment LCD, 25mm/1 inch high primary digits, dual line, with high-contrast white LED backlight
Keypad	Positive feedback membrane keys, 5 function keys and alpha-numeric keypad
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 / Linearity: 3 or 5 point
Power	100-240 VAC / 50-60Hz internal universal power supply, 6 'C' cell batteries (not supplied) with 80 hour life

RS232 and external input

14°F to 104°F / -10°C to 40°

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Interface

Operating Temperature Range

T71P: 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 (Made from Certified/Approved weighing components): NTEP (CC No. 09-102 for indicator; 01-048A1 for square bases; 99-203A3 for rectangular bases) / Measurement Canada (Approval No. AM-5762 for Indicator; AM-5719 for square bases; AM-5675 for rectangular bases)
- Safety and EMC: _cUL_{us} 2005/95/EC low voltage directive: EN60950-1:2001, FCC Part 15 Class A 2004/108/EC Compliant to Directive 202/96/EC on waste electrical and electronic equipment (WEEE)
- Quality: 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



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