



Defender™ 7000

Advanced Low Profile Scales



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 columns. 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
- Quick display of results using large dual line LCD with high-contrast white backlight
- Temporary display of 10x readability in weighing mode using quick 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 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
- Base and indicator connected using quick connect plug
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS485/422

Defender™ 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 400 oz x 0.05 oz 25 lb : 0.05 oz 10 kg x 0.001 kg 10000 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 25000 g x 2 g	100 lb x 0.01 lb 1600 oz x 0.2 oz 100 lb : 0.2 oz 50 kg x 0.005 kg 50000 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 100000 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 250000 g x 20 g
Maximum Displayed Resolution	1:12500	1:12500	1:10000	1:12500	1:12500
Scale Dimensions (W x H1 x D1 x D2)	12 x 3.7 x 12 x 20.8 in 305 x 95 x 305 x 530 mm		18 x 4.5 x 18 x 26.8 in 457 x 115 x 457 x 680 mm		24 x 5.4 x 24 x 32.8 in 610 x 137 x 610 x 833 mm
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
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

Model	D71P15HR5	D71P30HR5	D71P60HR5	D71P60HL5	D71P100HL5	D71P150HX5	D71P300HX5
Capacity (max) x Default Readability (d)	30lb x 0.005lb 480oz x 0.1oz 30lb : 0.1oz 15kg x 0.002kg 15000g x 2g	60lb x 0.01lb 960oz x 0.2oz 60lb x 0.2oz 30kg x 0.005kg 30000g x 5g	150lb x 0.02lb 2400oz x 0.5oz 150lb : 0.5oz 60kg x 0.01kg 60000g x 10g		250lb x 0.05lb 4000oz x 1oz 250lb : 1oz 100kg x 0.02kg 100000g x 20g	300lb x 0.05lb 4800oz x 1oz 300lb : 1oz 150kg x 0.02kg 150000g x 20g	600lb x 0.1lb 9600oz x 2oz 600lb : 2oz 300kg x 0.05kg 300000g x 50g
Maximum Displayed Resolution	1:7500	1:6000	1:7500		1:5000	1:7500	1:6000
Scale Dimensions (W x H1 x D1 x D2)	12 x 3.7 x 14 x 22.8 in 305 x 95 x 355 x 580 mm			15.7 x 4.1 x 19.7 x 28.5 in 400 x 105 x 500 x 725 mm		16.5 x 4.9 x 21.7 x 30.5 in 420 x 125 x 550 x 775 mm	
Shipping Dimensions (L x W x H)	19.3 x 16.1 x 17.3 in 490 x 410 x 440 mm			29.1 x 27.2 x 9.1 in 740 x 690 x 230 mm		29.5 x 30 x 9.1 in 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
Interface	RS232 and external input
Operating Temperature Range	14°F to 104°F / -10°C to 40°C

Features

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, over- and underweight, overload and underload conditions. Configuration menus for PRINT1, PRINT2, COM1, COM2, and I/O.

Compliance

- **Safety and EMC:** $c_{UL_{US}}$ 2005/95/EC low voltage directive: EN60950-1:2001, FCC Part 15 Class A 2004/108/EC Compliant to Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)
- **Quality:** OHAUS quality management system registered to ISO 9001:2000

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