



Defender™ 7000

Advanced Square 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 base with ABS indicator
- 10,000-12,500d default resolution
- 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

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Specifications

Model	D71P10QR1	D71P25QR1	D71P50QL2	D71P100QL2	D71P250QX2
Capacity (max) x Default Readability (d)	25lb x 0.002lb 400oz x 0.05oz 25lb : 0.05oz 10kg x 0.001kg 10000g x 1g	50lb x 0.005lb 800oz x 0.1oz 50lb x 0.1oz 25kg x 0.002kg 25000g x 2g	100lb x 0.01lb 1600oz x 0.2oz 100lb : 0.2oz 50kg x 0.005kg 50000g x 5g	250lb x 0.02lb 4000oz x .5oz 250lb : .5oz 100kg x 0.01kg 100000g x 10g	500lb x 0.05lb 8000oz x 1oz 500lb : 1oz 250kg x 0.02kg 250000g x 20g
Maximum Displayed Resolution	1:12500	1:12500	1:10000	1:12500	1:12500
Indicator Model	T71P				
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, 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				
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		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

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:** 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 9001:2000

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With offices throughout Europe,
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* **ISO 9001**
Registered Quality Management System

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