



Defender[®]
Bench Scales



Ingeniously Practical

ISO 9001:2008 Registered Quality Management System

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DEFENDER 7000XW XTREME WASHDOWN BENCH SCALES

1:10,000 – 1:12,500 maximum displayed resolution

- NEMA 4X/IP66 washdown protection
- kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- Large dual line backlit LCD display with alphanumeric keypad for data entry
- Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, Totalization, Display Hold and 255 item library function included
- Internal universal switching AC power supply with hardwired line cord—optional NiMH internal rechargeable power pack available (Item # 80500729)
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS485/422

								
NTEP 5,000d	Measurement Canada 5,000d	Parts Counting	Percent Weighing	Dynamic/ Animal Weighing	Check- weighing	Display Hold	Totalization	GMP/GLP
								
RS232	External Analog Base Input	NEMA 4X / IP66	Rechargeable Battery (Optional)	RS485/422 (Optional)	RS232 x2 (Optional)	AC Relay (Optional)	DC Relay (Optional)	

Item #		D71XW10WR3	D71XW25WR3	D71XW50WL4	D71XW100WL4	D71XW250WX4
Capacity × Readability	Default	25 × 0.002 lb 400 × 0.05 oz 10 × 0.001 kg	50 × 0.005 lb 800 × 0.1 oz 25 × 0.002 kg	100 × 0.01 lb 1,600 × 0.2 oz 50 × 0.005 kg	250 × 0.02 lb 4,000 × 0.5 oz 100 × 0.01 kg	500 × 0.05 lb 8,000 × 1 oz 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 10 × 0.002 kg 400 × 0.1 oz	50 × 0.01 lb 25 × 0.005 kg 800 × 0.2 oz	100 × 0.02 lb 50 × 0.01 kg 1,600 × 0.5 oz	250 × 0.05 lb 100 × 0.02 kg 4,000 × 1 oz	500 × 0.1 lb 250 × 0.05 kg 8,000 × 2 oz
Scale Base Size		12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm
Column		13.8 in / 35 cm stainless steel		26.8 in / 68 cm stainless steel		
Construction		Stainless steel indicator, weighing pan, loadcell, column and base construction				

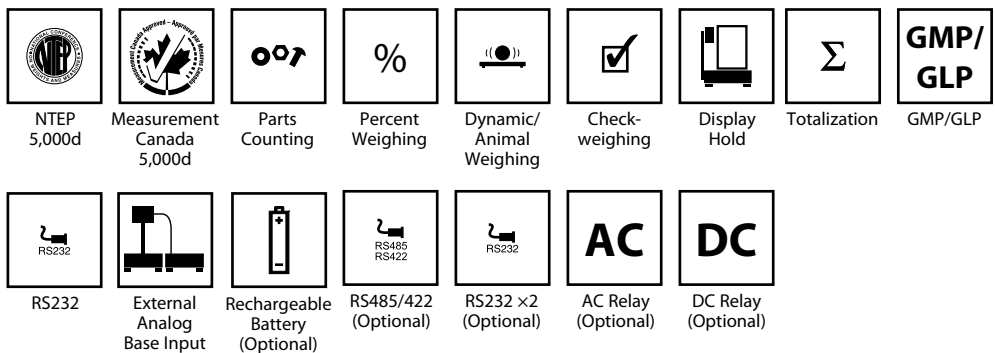
Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 01-048AL, Measurement Canada Notices of Approval AM-5762 and AM-5719



DEFENDER 7000X XTREME BENCH SCALES

1:6,000 – 1:7,500 maximum displayed resolution

- kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- Large dual line backlit LCD display with alphanumeric keypad for data entry
- Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, Totalization, Display Hold and 255 item library function included
- Internal universal switching AC power supply with hardwired line cord—optional NiMH internal rechargeable power pack available (Item # 80500729)
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS485/422



Item #		D71XW15HR1	D71XW30HR1	D71XW60HR1	D71XW60HL2	D71XW100HL2	D71XW150HX2	D71XW300HX2
Capacity × Readability	Default	30 × 0.005 lb 480 × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 30 × 0.005 kg	150 × 0.02 lb 2,400 × 0.5 oz 60 × 0.01 kg		250 × 0.05 lb 4,000 × 1 oz 100 × 0.02 kg	300 × 0.05 lb 4,800 × 1 oz 150 × 0.02 kg	600 × 0.1 lb 9,600 × 2 oz 300 × 0.05 kg
	Certified / Approved	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg	150 × 0.05 lb 2,400 × 1 oz 60 × 0.02 kg		250 × 0.1 lb 4,000 × 2 oz 100 × 0.05 kg	300 × 0.1 lb 4,800 × 2 oz 150 × 0.05 kg	600 × 0.2 lb 9,600 × 5 oz 300 × 0.1 kg
Scale Base Size		12 × 14 × 3.7 in / 30.5 × 35.5 × 9.5 cm				15.7 × 19.7 × 4.1 in / 40 × 50 × 10.5 cm		16.5 × 21.7 × 4.9 in / 42 × 55 × 10.5 cm
Column		13.8 in / 35 cm painted steel				26.8 in / 68 cm painted steel		
Construction		Stainless steel indicator and weighing pan, aluminum loadcell, painted steel column and base construction						

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 99-203A3, Measurement Canada Notices of Approval AM-5762 and AM-5675



DEFENDER® 7000 BENCH SCALES

Available in Square or Rectangular Platforms

- 1:10,000 – 1:12,500 maximum displayed resolution for “Q” models
1: 6,000 – 1:7,500 maximum displayed resolution for “H” models
- kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- Large dual line backlit LCD display with alphanumeric keypad for data entry
- Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, Totalization, Display Hold and 255 item library function included
- Internal universal switching AC power supply with line cord or power using 6 “C” cell batteries (not included)—optional NiMH internal rechargeable power pack available (Item # 80500729)
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS422/485

							
NTEP 3,000 or 5,000d	Measurement Canada 3,000 or 5,000d	Parts Counting	Percent Weighing	Dynamic/Animal Weighing	Checkweighing	Display Hold	Totalization
							
GMP/GLP	External Analog Base Input	RS232	Battery Power (Rechargeable Battery Option)	RS485/422 (Optional)	RS232 x2 (Optional)	AC Relay (Optional)	DC Relay (Optional)

DEFENDER 7000 SQUARE BENCH SCALES

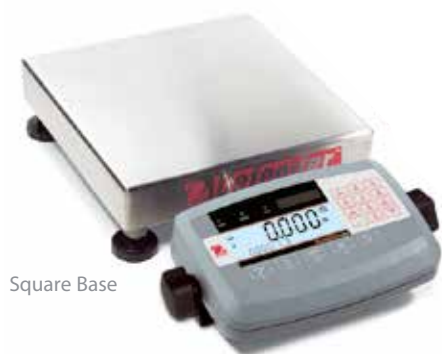
Item #		D71P10QR1	D71P25QR1	D71P50QL2	D71P100QL2	D71P250QX2
Capacity × Readability	Default	25 × 0.002 lb 400 × 0.05 oz 10 × 0.001 kg	50 × 0.005 lb 800 × 0.1 oz 25 × 0.002 kg	100 × 0.01 lb 1,600 × 0.2 oz 50 × 0.005 kg	250 × 0.02 lb 4,000 × 0.5 oz 100 × 0.01 kg	500 × 0.05 lb 8,000 × 1 oz 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 400 × 0.1 oz 10 × 0.002 kg	50 × 0.01 lb 800 × 0.2 oz 25 × 0.005 kg	100 × 0.02 lb 1,600 × 0.5 oz 50 × 0.01 kg	250 × 0.05 lb 4,000 × 1 oz 100 × 0.02 kg	500 × 0.10 lb 8,000 × 2 oz 250 × 0.05 kg
Scale Base Size		12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm
Column		13.8 in / 35 cm painted steel		26.8 in / 68 cm painted steel		
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel column and base construction				

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 01-048AL, Measurement Canada Notices of Approval AM-5762 and AM-5719

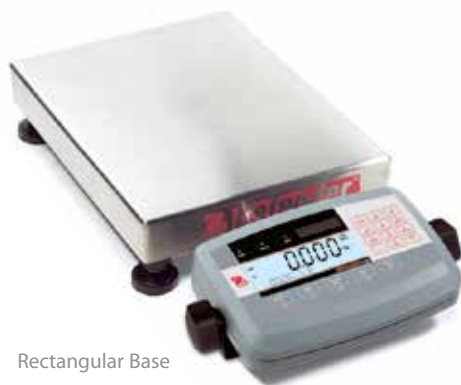
DEFENDER 7000 RECTANGULAR BENCH SCALES

Item #		D71P15HR1	D71P30HR1	D71P60HR1	D71P60HL2	D71P100HL2	D71P150HX2	D71P300HX2
Capacity × Readability	Default	30 × 0.005 lb 480 × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 30 × 0.005 kg	150 × 0.02 lb 2,400 × 0.5 oz 60 × 0.01 kg		250 × 0.05 lb 4,000 × 1 oz 100 × 0.02 kg	300 × 0.05 lb 4,800 × 1 oz 150 × 0.02 kg	600 × 0.1 lb 9,600 × 2 oz 300 × 0.05 kg
	Certified / Approved	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg	150 × 0.05 lb 2,400 × 1 oz 60 × 0.02 kg		250 × 0.1 lb 4,000 × 2 oz 100 × 0.05 kg	300 × 0.1 lb 4,800 × 2 oz 150 × 0.05 kg	600 × 0.2 lb 9,600 × 5 oz 300 × 0.1 kg
Scale Base Size		12 × 14 × 3.7 in / 30.5 × 35.5 × 9.5 cm				15.7 × 19.7 × 4.1 in / 40 × 50 × 10.5 cm		16.5 × 21.7 × 4.9 in / 42 × 55 × 10.5 cm
Column		13.8 in / 35 cm painted steel				26.8 in / 68 cm painted steel		
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel column and base construction						

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 99-203A3, Measurement Canada Notices of Approval AM-5762 and AM-5675



Square Base

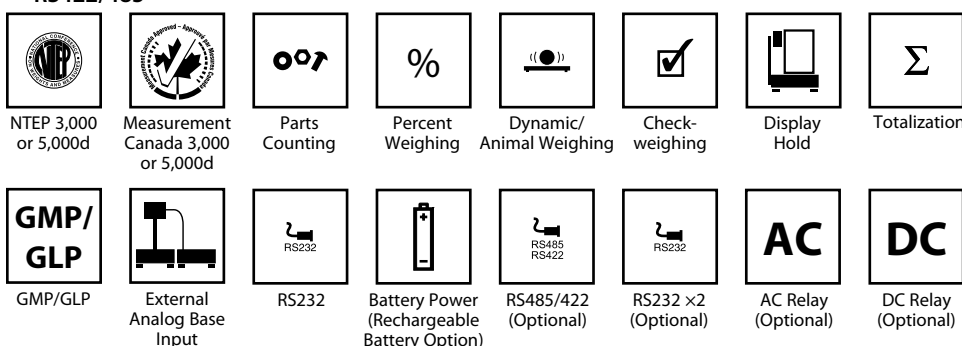


Rectangular Base

DEFENDER® 7000 LOW PROFILE SCALES

Available in Square or Rectangular Platforms

- 1:10,000 – 1:12,500 maximum displayed resolution for “Q” models
1:6,000 – 1:7,500 maximum displayed resolution for “H” models
- kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- Large dual line backlit LCD display with alphanumeric keypad for data entry
- Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, Totalization, Display Hold and 255 item library function included
- Internal universal switching AC power supply with line cord or power using 6 “C” cell batteries (not included)—optional NiMH internal rechargeable power pack available (Item # 80500729)
- Includes external analog scale base input for two scale counting and weighing
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS422/485



DEFENDER 7000 LOW PROFILE SQUARE BENCH SCALES

Item #		D71P10QR5	D71P25QR5	D71P50QL5	D71P100QL5	D71P250QX5
Capacity × Readability	Default	25 × 0.002 lb 400 × 0.05 oz 10 × 0.001 kg	50 × 0.005 lb 800 × 0.1 oz 25 × 0.002 kg	100 × 0.01 lb 1,600 × 0.2 oz 50 × 0.005 kg	250 × 0.02 lb 4,000 × 0.5 oz 100 × 0.01 kg	500 × 0.05 lb 8,000 × 1 oz 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 10 × 0.002 kg 400 × 0.1 oz	50 × 0.01 lb 25 × 0.005 kg 800 × 0.2 oz	100 × 0.02 lb 50 × 0.01 kg 1,600 × 0.5 oz	250 × 0.05 lb 100 × 0.02 kg 4,000 × 1 oz	500 × 0.10 lb 250 × 0.05 kg 8,000 × 2 oz
Scale Base Size		12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel mounting bracket and base construction				

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 01-048AL, Measurement Canada Notices of Approval AM-5762 and AM-5719

DEFENDER 7000 LOW PROFILE RECTANGULAR BENCH SCALES

Item #		D71P15HR5	D71P30HR5	D71P60HR5	D71P60HL5	D71P100HL5	D71P150HX5	D71P300HX5
Capacity × Readability	Default	30 × 0.005 lb 480 × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 30 × 0.005 kg	150 × 0.02 lb 2,400 × 0.5 oz 60 × 0.01 kg		250 × 0.05 lb 4,000 × 1 oz 100 × 0.02 kg	300 × 0.05 lb 4,800 × 1 oz 150 × 0.02 kg	600 × 0.1 lb 9,600 × 2 oz 300 × 0.05 kg
	Certified / Approved	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg	150 × 0.05 lb 2,400 × 1 oz 60 × 0.02 kg		250 × 0.1 lb 4,000 × 2 oz 100 × 0.05 kg	300 × 0.1 lb 4,800 × 2 oz 150 × 0.05 kg	600 × 0.2 lb 9,600 × 5 oz 300 × 0.1 kg
Scale Base Size		12 × 14 × 3.7 in / 30.5 × 35.5 × 9.5 cm				15.7 × 19.7 × 4.1 in / 40 × 50 × 10.5 cm		16.5 × 21.7 × 4.9 in / 42 × 55 × 10.5 cm
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel mounting bracket and base construction						

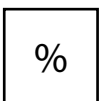
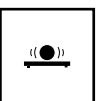
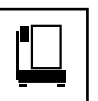
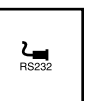
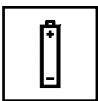
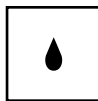
Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 99-203A3, Measurement Canada Notices of Approval AM-5762 and AM-5675



DEFENDER 5000XW SQUARE WASHDOWN BENCH SCALES

1:10,000 – 1:12,500 maximum displayed resolution

- NEMA 4X / IP66 washdown protection
- kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- Large backlit LCD display
- Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, and Display Hold software included
- Internal universal switching AC power supply with hardwired line cord—optional NiMH internal rechargeable power pack available (Item # 80500729)
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS485/422

							
NTEP 5,000d	Measurement Canada 5,000d	Parts Counting	Percent Weighing	Dynamic/ Animal Weighing	Check- weighing	Display Hold	RS232
							
GMP/GLP	Rechargeable Battery (Optional)	NEMA 4X / IP66	RS485/422 (Optional)	RS232 x2 (Optional)	AC Relay (Optional)	DC Relay (Optional)	

Item #		D51XW10WR3	D51XW25WR3	D51XW50WL4	D51XW100WL4	D51XW250WX4
Capacity × Readability	Default	25 × 0.002 lb 400 × 0.05 oz 10 × 0.001 kg	50 × 0.005 lb 800 × 0.1 oz 25 × 0.002 kg	100 × 0.01 lb 1,600 × 0.2 oz 50 × 0.005 kg	250 × 0.02 lb 4,000 × 0.5 oz 100 × 0.01 kg	500 × 0.05 lb 8,000 × 1 oz 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 10 × 0.002 kg 400 × 0.1 oz	50 × 0.01 lb 25 × 0.005 kg 800 × 0.2 oz	100 × 0.02 lb 50 × 0.01 kg 1,600 × 0.5 oz	250 × 0.05 lb 100 × 0.02 kg 4,000 × 1 oz	500 × 0.1 lb 250 × 0.05 kg 8,000 × 2 oz
Scale Base Size		12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm
Column		13.8 in / 35 cm stainless steel		26.8 in / 68 cm stainless steel		
Construction		Stainless steel indicator, weighing pan, loadcell, column and base construction				

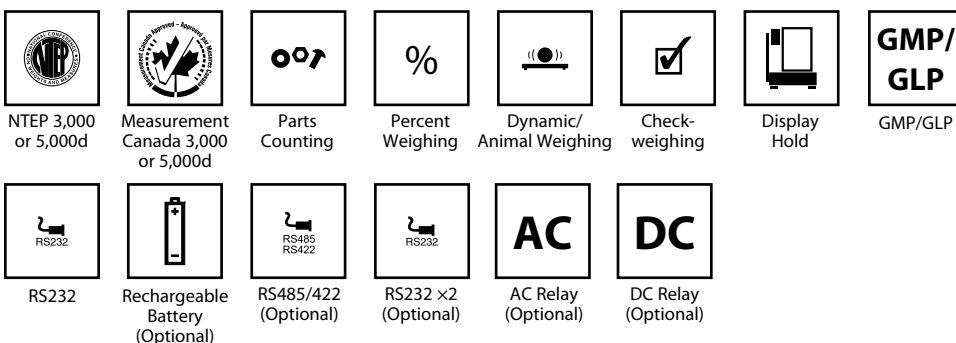
Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 01-048A1, Measurement Canada Notices of Approval AM-5687 and AM-5719



DEFENDER 5000X XTREME BENCH SCALES

Available in Square or Rectangular Platforms

- 1:10,000 – 1:12,500 maximum displayed resolution for “Q” models
1:6,000 – 1:7,500 maximum displayed resolution for “H” models
- kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- Large backlit LCD display
- Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, and Display Hold software included
- Internal universal switching AC power supply with hardwired line cord—optional NiMH internal rechargeable power pack available (Item # 80500729)
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS485/422



Item #		D51XW15HR1	D51XW30HR1	D51XW60HR1	D51XW60HL2	D51XW100HL2	D51XW150HX2	D51XW300HX2
Capacity × Read- ability	Default	30 × 0.005 lb 480 × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 30 × 0.005 kg	150 × 0.02 lb 2,400 × 0.5 oz 60 × 0.01 kg		250 × 0.05 lb 4,000 × 1 oz 100 × 0.02 kg	300 × 0.05 lb 4,800 × 1 oz 150 × 0.02 kg	600 × 0.1 lb 9,600 × 2 oz 300 × 0.05 kg
	Certified / Approved	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg	150 × 0.05 lb 2,400 × 1 oz 60 × 0.02 kg		250 × 0.1 lb 4,000 × 2 oz 100 × 0.05 kg	300 × 0.1 lb 4,800 × 2 oz 150 × 0.05 kg	600 × 0.2 lb 9,600 × 5 oz 300 × 0.1 kg
Scale Base Size		12 × 14 × 3.7 in / 30.5 × 35.5 × 9.5 cm				15.7 × 19.7 × 4.1 in / 40 × 50 × 10.5 cm		16.5 × 21.7 × 4.9 in / 42 × 55 × 10.5 cm
Column		13.8 in / 35 cm painted steel				26.8 in / 68 cm painted steel		
Construction		Stainless steel indicator and weighing pan, aluminum loadcell, painted steel column and base construction						

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 99-203A3, Measurement Canada Notices of Approval AM 5687 and AM-5675



DEFENDER 5000 BENCH SCALES

Available in Square or Rectangular Platforms

- 1:10,000 – 1:12,500 maximum displayed resolution for “Q” models
1: 6,000 – 1:7,500 maximum displayed resolution for “H” models
- kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- Large backlit LCD display
- Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, and Display Hold software included
- Internal universal switching AC power supply with line cord or power using 6 “C” cell batteries (not included)—optional NiMH internal rechargeable power pack available (Item # 80500729)
- Optional interfaces: DC relay control kit, AC relay control kit, 2nd RS232 and RS422/485

							
NTEP 3,000 or 5,000d	Measurement Canada 3,000 or 5,000d	Parts Counting	Percent Weighing	Dynamic/Animal Weighing	Checkweighing	Display Hold	GMP/GLP
							
RS232	Battery Power	Rechargeable Battery (Optional)	RS485/422 (Optional)	RS232 x2 (Optional)	AC Relay (Optional)	DC Relay (Optional)	

DEFENDER 5000 SQUARE BENCH SCALES

Item #		D51P10QR1	D51P25QR1	D51P50QL2	D51P100QL2	D51P250QX2
Capacity × Readability	Default	25 × 0.002 lb 400 × 0.05 oz 10 × 0.001 kg	50 × 0.005 lb 800 × 0.1 oz 25 × 0.002 kg	100 × 0.01 lb 1,600 × 0.2 oz 50 × 0.005 kg	250 × 0.02 lb 4,000 × 0.5 oz 100 × 0.01 kg	500 × 0.05 lb 8,000 × 1 oz 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 10 × 0.002 kg 400 × 0.1 oz	50 × 0.01 lb 25 × 0.005 kg 800 × 0.2 oz	100 × 0.02 lb 50 × 0.01 kg 1,600 × 0.5 oz	250 × 0.05 lb 100 × 0.02 kg 4,000 × 1 oz	500 × 0.10 lb 250 × 0.05 kg 8,000 × 2 oz
Scale Base Size		12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm
Column		13.8 in / 35 cm painted steel		26.8 in / 68 cm painted steel		
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel column and base construction				

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 01-048A1, Measurement Canada Notices of Approval AM 5687 and AM-5719

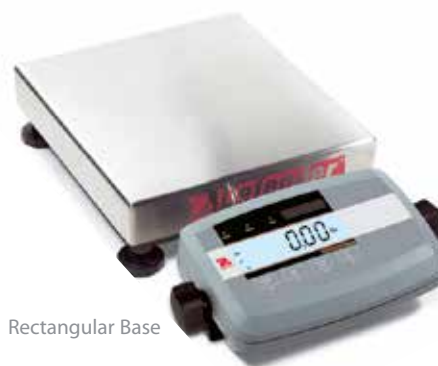
DEFENDER 5000 RECTANGULAR BENCH SCALES

Item #		D51P15HR1	D51P30HR1	D51P60HR1	D51P60HL2	D51P100HL2	D51P150HX2	D51P300HX2
Capacity × Readability	Default	30 × 0.005 lb 480 × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 30 × 0.005 kg	150 × 0.02 lb 2,400 × 0.5 oz 60 × 0.01 kg		250 × 0.05 lb 4,000 × 1 oz 100 × 0.02 kg	300 × 0.05 lb 4,800 × 1 oz 150 × 0.02 kg	600 × 0.1 lb 9,600 × 2 oz 300 × 0.05 kg
	Certified / Approved	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg	150 × 0.05 lb 2,400 × 1 oz 60 × 0.02 kg		250 × 0.1 lb 4,000 × 2 oz 100 × 0.05 kg	300 × 0.1 lb 4,800 × 2 oz 150 × 0.05 kg	600 × 0.2 lb 9,600 × 5 oz 300 × 0.1 kg
Scale Base Size		12 × 14 × 3.7 in / 30.5 × 35.5 × 9.5 cm				15.7 × 19.7 × 4.1 in / 40 × 50 × 10.5 cm		16.5 × 21.7 × 4.9 in / 42 × 55 × 10.5 cm
Column		13.8 in / 35 cm painted steel				26.8 in / 68 cm painted steel		
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel column and base construction						

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 99-203A3, Measurement Canada Notices of Approval AM 5687 and AM-5675



Square Base



Rectangular Base

DEFENDER 5000 LOW PROFILE SCALES

Available in Square or Rectangular Platforms

- 1:10,000 – 1:12,500 maximum displayed resolution for “Q” models
1:6,000 – 1:7,500 maximum displayed resolution for “H” models
- kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- Large backlit LCD display
- Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, and Display Hold software included
- Internal universal switching AC power supply with line cord or power using 6 “C” cell batteries (not included)—optional NiMH internal rechargeable power pack available (Item # 80500729)
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS422/485

							
NTEP 3,000 or 5,000d	Measurement Canada 3,000 or 5,000d	Parts Counting	Percent Weighing	Dynamic/Animal Weighing	Checkweighing	Display Hold	GMP/GLP
							
RS232	Rechargeable Battery (Optional)	RS485/422 (Optional)	RS232 x2 (Optional)	AC Relay (Optional)	DC Relay (Optional)		

DEFENDER 5000 SQUARE BENCH SCALES

Item #		D51P10QR5	D51P25QR5	D51P50QL5	D51P100QL5	D51P250QX5
Capacity × Readability	Default	25 × 0.002 lb 400 × 0.05 oz 10 × 0.001 kg	50 × 0.005 lb 800 × 0.1 oz 25 × 0.002 kg	100 × 0.01 lb 1,600 × 0.2 oz 50 × 0.005 kg	250 × 0.02 lb 4,000 × 0.5 oz 100 × 0.01 kg	500 × 0.05 lb 8,000 × 1 oz 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 10 × 0.002 kg 400 × 0.1 oz	50 × 0.01 lb 25 × 0.005 kg 800 × 0.2 oz	100 × 0.02 lb 50 × 0.01 kg 1,600 × 0.5 oz	250 × 0.05 lb 100 × 0.02 kg 4,000 × 1 oz	500 × 0.10 lb 250 × 0.05 kg 8,000 × 2 oz
Scale Base Size		12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel mounting bracket and base construction				

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 01-048A1, Measurement Canada Notices of Approval AM 5687 and AM-5719

DEFENDER 5000 RECTANGULAR BENCH SCALES

Item #		D51P15HR5	D51P30HR5	D51P60HR5	D51P60HL5	D51P100HL5	D51P150HX5	D51P300HX5
Capacity × Readability	Default	30 × 0.005 lb 480 × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 30 × 0.005 kg	150 × 0.02 lb 2,400 × 0.5 oz 60 × 0.01 kg		250 × 0.05 lb 4,000 × 1 oz 100 × 0.02 kg	300 × 0.05 lb 4,800 × 1 oz 150 × 0.02 kg	600 × 0.1 lb 9,600 × 2 oz 300 × 0.05 kg
	Certified / Approved	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg	150 × 0.05 lb 2,400 × 1 oz 60 × 0.02 kg		250 × 0.1 lb 4,000 × 2 oz 100 × 0.05 kg	300 × 0.1 lb 4,800 × 2 oz 150 × 0.05 kg	600 × 0.2 lb 9,600 × 5 oz 300 × 0.1 kg
Scale Base Size		12 × 14 × 3.7 in / 30.5 × 35.5 × 9.5 cm				15.7 × 19.7 × 4.1 in / 40 × 50 × 10.5 cm		16.5 × 21.7 × 4.9 in / 42 × 55 × 10.5 cm
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel mounting bracket and base construction						

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 99-203A3, Measurement Canada Notices of Approval AM 5687 and AM-5675



DEFENDER 3000 BENCH SCALES

- 1:6,000-1:7,500 maximum displayed resolution
- Backlit LCD display
- lb, oz, lb:oz, kg, g
- Parts Counting software included
- AC power adapter or 100-hour internal rechargeable lead acid battery (included)



Parts
Counting



RS232



Rechargeable
Battery

Item #	D31P30BR	D31P60BR	D31P60BL	D31P150BL	D31P150BX	D31P300BX
Capacity × Readability	66 × 0.02 lb 1056 × 0.2 oz 66 lb × 0.2 oz 30 × 0.005 kg	132 × 0.05 lb 2,112 × 0.5 oz 160 lb × 0.5 oz 60 × 0.01 kg	132 × 0.05 lb 2,112 × 0.5 oz 160 lb × 0.5 oz 60 × 0.01 kg	330 × 0.05 lb 5,280 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	330 × 0.05 lb 5,280 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	660 × 0.2 lb 10,576 × 2 oz 660 lb × 2 oz 300 × 0.05 kg
Column	13.8 in / 350 mm stainless steel		27.6 in / 700 mm stainless steel			
Construction	ABS indicator, stainless steel weighing pan, aluminum loadcell, painted steel frame and column					
Scale Base Size	12 × 14 × 4.8 in / 305 × 355 × 123 mm		16.5 × 21.6 × 5.4 in / 420 × 550 × 136 mm		19.7 × 25.6 × 5.8 in / 500 × 650 × 147 mm	



DEFENDER 3000 WHEELED BENCH SCALES

- 1:6,000-1:7,500 maximum displayed resolution
- Backlit LCD display
- lb, oz, lb:oz, kg, g
- Polyurethane wheels with quick-lock mechanism
- Parts Counting software included
- AC power adapter or 100-hour internal rechargeable lead acid battery (included)



NTEP
3,000d



Measurement
Canada 3,000d



Parts
Counting



RS232



Rechargeable
Battery

Item #	D31P250TX	D31P500TX
Capacity × Readability (default: cal unit lb) Capacity × Readability (cal unit kg)	500 × 0.1 lb / 227 × 0.05 kg 250 × 0.05 kg / 551 × 0.2 lb	1,000 × 0.2 lb / 454 × 0.1 kg 500 × 0.1 kg / 1,102 × 0.5 lb
Certified / Approved Resolution	500 × 0.2 lb 250 × 0.1 kg	1,000 × 0.5 lb 500 × 0.2 kg
Column	40.5 in / 1,030 mm stainless steel	
Pan Dimensions (W × D)	20 × 28 in / 508 × 710 mm	
Construction	ABS indicator, stainless steel weighing pan, aluminum loadcell, painted steel frame and column, polyurethane wheels	

Made from Certified/Approved weighing components • NTEP Certificate of conformance No. 09-056 for base, 08-066A1 for indicator, Measurement Canada Notice of Approval AM-5723 for bases, AM-5713C Rev.1 for indicator

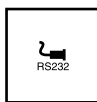


DEFENDER 3000XW XTREME WASHDOWN SCALES

- NEMA 4X / IP65 washdown protection
- 1:6,000 – 1:7,500 maximum displayed resolution
- Stainless-steel indicator, column, pan and base
- lb, oz, lb:oz (decimal), kg, and g
- Backlit LCD display
- Parts Counting software included
- Internal AC power supply or 58-hour internal rechargeable battery (included)



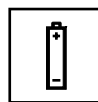
Parts
Counting



RS232



NEMA 4X /
IP65



Rechargeable
Battery

Item #	D32XW30VR	D32XW60VR	D32XW60VL	D32XW150VL	D32XW150VX	D32XW300VX
Capacity × Readability	66 × 0.02 lb 1,056 × 0.2 oz 66 lb × 0.2 oz 30 × 0.005 kg	132 × 0.05 lb 2,112 × 0.5 oz 160 lb × 0.5 oz 60 × 0.01 kg	132 × 0.05 lb 2,112 × 0.5 oz 160 lb × 0.5 oz 60 × 0.01 kg	330 × 0.05 lb 5,280 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	330 × 0.05 lb 5,280 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	660 × 0.2 lb 10,576 × 2 oz 660 lb × 2 oz 300 × 0.05 kg
Column	13.8 in / 350 mm stainless steel		27.6 in / 700 mm stainless steel			
Construction	All-stainless steel indicator, removable weighing platform, loadcell, column and base construction					
Scale Base Size	12 × 14 × 4.8 in / 305 × 355 × 123 mm		16.5 × 21.6 × 5.4 in / 420 × 550 × 136 mm		19.7 × 25.6 × 5.8 in / 500 × 650 × 147 mm	

DEFENDER BENCH SCALE OPTIONS

Printers & Cables

Compact Thermal Printer

Part No.	Description
80251992	Compact Thermal Printer
80252584	RS232 Cable & Adapter, 80251992 Printer to T32XW/T51XW/T71XW Indicators
80252581	RS232 Cable & Adapter, 80251992 Printer to T31P/T51P/T71P Indicators

Compact Dot Matrix Printer

Part No.	Description
80252042	Compact Dot Matrix Impact Printer
80252574	RS232 Cable & Adapter, 80252042 Printer to T32XW/T51XW/T71XW Indicators
80252571	RS232 Cable & Adapter, 80252042 Printer to T31P/T51P/T71P Indicators

Other Cables

Part No.	Description
80500552	RS232 Cable, PC 9-pin to T32XW/T51XW/T71XW Indicators
80500525	RS232 Cable, PC 9-pin to T31P/T51P/T71P Indicators
80500553	RS232 Cable, PC 25 pin to T32XW/T51XW/T71XW Indicators
80500524	RS232 Cable, PC 25 pin to T31P/T51P/T71P Indicators

Interfaces, Relays and Battery Options for Defender 7000 or 5000

Part No.	Description
80500720	AC Relay Kit, Defender 7000 or 5000 Scales
80500727	DC Relay Kit, Defender 7000 or 5000 Scales
80500729	Rechargeable Battery Kit, Defender 7000 or 5000 Scales
80500731	RS422/485 Interface Kit, Defender 7000 or 5000 Scales
80500733	Second RS232 Interface Kit, Defender 7000 or 5000 Scales

For special configurations of Defender 7000 or 5000, or for spare parts contact your local OHAUS dealer for assistance



Select Defender® Model Guide

Product	Indicator	Base	Brochure Page	Weight Range	Certified / Approved Resolution (d)	Weighing Modes														Features														
						Counting						Checkweighing	Checkweighing Display LED	Percent Weighing	Dynamic Weighing	Display Hold	Temporary 10X Weight Display	GMP Output with Date /Time	Totalization	Statistics Print Output	Spanish or French Text Display	Library Memories	Weight Display	Numeric Keypad	Indicator / Compact Scale Housing	Base / Weighing Frame Construction	IP / NEMA Rating	2nd RS232	RS485/422	AC or DC Relays	Rechargeable Battery	Battery Power	External Tare Switch Input	
						APW Enhancement	Maximum Internal Counting Resolution (d)	Maximum External Counting Resolution (d)	Minimum APW (d)	Edit APW, Tare	Dual-Base Counting																							Remote Base Input
Defender 7000	T71XW	W	2	25 to 600 lb	5,000	✓	500,000	50,000	0.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	255	Alpha-numeric Dual-Line Backlit LCD	Alpha-numeric	Stainless Steel	Stainless (W base) or Painted (Q, H) Form/Welded Steel	66/4X	Option	Option		✓	✓				
	T71P	Q, H	4		3,000 (H) 5,000(Q)	✓																												
Defender 5000	T51XW	W	6		5,000	✓	300,000	30,000					✓	3	✓	✓	✓	✓	✓									Stainless Steel	66/4X	Option	Option		✓	✓
	T51P	Q, H	8		3,000 (H) 5,000(Q)	✓							✓		✓	✓	✓	✓														ABS		
Defender 3000	T31P	TX	10	500 / 1,000 lb	2,500 / 2,000		5,000	1													Backlit LCD		ABS	Wheeled Painted Tubular Steel					✓					
	T32XW	B	11																						Stainless Steel	Stainless Tubular Steel	65/4X						✓	
	T31P	V	10	66 to 660 lb					6,000 - 7,500																ABS	Painted Tubular Steel					✓			

Ingeniously Practical

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