

DefenderTM **3000 Series** Economy line of Indicators, Bases and Bench Scales



Designed with affordability in mind, but with no compromise on quality!

The OHAUS Defender[™] 3000 Series economy line of dry or wet-use indicators, bases and bench scales is ideal for general weighing and simple counting applications in production, packaging, warehouse, inventory, shipping and receiving areas. Used in both bench and floor scale configurations, they feature a simple yet rugged tubular-frame base design and indicators with positive feedback keys, high-contrast backlit LCD display, built-in rechargeable battery operation and flexible mounting capabilities. The OHAUS Defender 3000 Series is the solution to your weighing applications that require dependability within an affordable budget.

Standard Features Include:

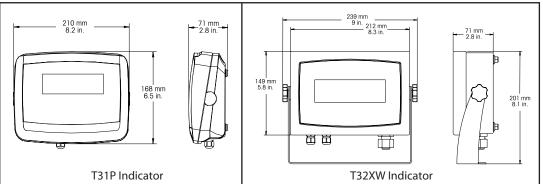
- Two rugged indicator models:
 - T31P indicator features a high-impact ABS housing that is reversible for either wall, column or table-top mounting
 - T32XW indicator features a 304 stainless steel housing with IP65 dust-tight and washdown protection; it features a flip-down front cover and only 4 sealing screws for ease of servicing
- Two base versions in three sizes:
 - 304 stainless steel pan with painted carbon steel frame and aluminum IP67 load cell
 304 stainless steel pan, frame and IP67 load cell
- Four scale capacity models: 30kg, 60kg, 150kg, 300kg
- Scales with maximum displayed resolutions 1:6000-7500d, Type-approved 1:3000e
- Built-in RS232 bidirectional interface, for printing and data communications
- Internal rechargeable sealed lead-acid battery included

DefenderTM 3000 Indicators, Bases and

Indicator Specifications

Models:	T31P	T32XW			
Construction	ABS plastic with internal reinforcing ribs Reversible front-rear cover with 4 key-hole mounts in rear housing	304 stainless steel NEMA 4X / IP65 PCB enclosure 304 stainless steel wall mount bracket with adjustment knobs			
Housing Dimensions (W x D x H)	210 x 71 x 168 mm	212 x 71 x 149 mm			
Full Scale Capacity Range	5 to 20,000 kg / lb				
Max Displayed / Approval Resolution	1:20,000d / 1	:6000e			
Weighing Units	kg, lb, g, oz	, lb:oz			
Extra Functions/Modes	Parts Cour	nting			
Minimum Average Piece Weight	1d				
Sample Size	5, 10, 20, 50, 100, 200 (user selectable)				
Weight Display	25mm/1″ High, 6-digit, 7-segment LCD wit	th high-contrast white LED backlight			
Keyboard	4 function mechanical switches, raised, tactile	4 function membrane switches, raised, tactile			
Load Cell Drive	up to 4 x 350 ohm Load Cells				
Load Cell Excitation Voltage	5V DC				
Load Cell Input Sensitivity	up to 3 mV/V (min 1 μV/d)				
Stabilization Time	within 2 seconds				
Auto-Zero Tracking	Off, 0.5, 1 or 3 divisions				
Key Zeroing Range	2% or 100% of capacity				
Span Calibration	5 kg/lb to 100% of capacity				
Interface	Bi-directional RS232C				
Power	9 VDC, 0.5A, AC adapter	100-240 VAC / 50/60 Hz universal power supply, hardwire cord			
Battery	Internal rechargeable sealed lead acid battery, 100-hour typical operation with full charge	Internal rechargeable sealed lead acid battery, 58-hour typical operation with full charge			
Operating Temperature Range	-10°C to 40°C				
Humidity Range	80% for temperatures up to 31°C, decreasing linearly to 50% at 40°C, non-condensing				
Net Weight	1.6kg	3.2kg			
Shipping Weight	2.6kg	4.4kg			
Shipping Dimensions (W x D x H)	272 x 235 x 175 mm	271 x 234 x 182 mm			
Other Features	Environmental filtering, geogra	Environmental filtering, geographical gravity adjustment			

Outline Dimensions, Indicators





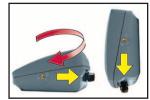
T31P Indicator shown

with optional wall mount

bracket



T32XW Indicator shown with included wall mount bracket



Reversible cover for cable exit above or below the housing, T31P



Structural ribs minimize flexing and gives strength to the housing, T31P



Integrated key-hole mounts for wall mounting without brackets, T31P

Bench Scales

Base Specifications

Base Models:	D30BR	D60BR	D60BL	D150BL	D150BX	D300BX	
Construction	304 stainless steel pan, painted carbon steel tubular frame, non-slip rubber leveling feet						
Net Weight	9 kg		16	kg	28	kg	
Shipping Weight	11 kg		19 kg		32 kg		
Load Cell Protection/Class	IP67, aluminum, single point / C3						
Base Models:	D30VR	D60VR	D60VL	D150VL	D150VX	D300VX	
Construction		304 stainles	s steel pan and fran	ne, non-slip rubber	leveling feet		
Net Weight	9	kg	18 kg	21 kg	33 kg		
Shipping Weight	11	kg	21 kg	24 kg	37	' kg	
Load Cell Protection/Class	IP67, stainless steel, single point / C3						
Capacity (max) x Readability (d)	30 kg x 5 g	60 kg x 10 g	60 kg x 10 g	150 kg x 20 g	150 kg x 20 g	300 kg x 50 g	
Maximum Resolution	1:6000		1:7500 1:6		1:6000		
Capacity (max) x Approvable Readability (e)	30 kg x 10 g	60 kg x 20 g	60 kg x 20 g	150 kg x 50 g	150 kg x 50 g	300 kg x 100 g	
Approval Resolution (n max)		•	1:3	000	<u>~</u>		
_oad Cell Capacity	50 kg	kg 100 kg 30) kg	500 kg		
_oad Cell Cable	2m L x 6-wire		2.3m L x 6-wire				
Load Cell Rated Output	2 mV/V ± 10%						
oad Cell Excitation Voltage	Maximum 20V (AC/DC) / Recommended 5~15V (AC/DC)						
Load Cell Input / Output Resistance	410 ± 10 ohms / 350 ± 4 ohms						
Leveling Components	Externally visible level bubble and adjustable leveling feet						
Operating Temperature	-10°C to 40°C						
Safe Overload Capacity	125% of rated scale capacity						
Base Dimensions A x B x C x D x E)	355 x 305 x 123 x 75 x 380 mm 550 x 420 x 136		5 x 80 x 575 mm	650 x 500 x 143	3 x 90 x 675 mm		
hipping Dimensions (W x D	642 x 497 x 212 mm 857 x 564 x 225 mm 1,022 x 687 x 247 mm			7 x 247 mm			

Options and Accessories

Wall mount bracket kit (includes adjustment knobs), T31P,	
painted carbon steel	80251747
Wall mount bracket kit (includes adjustment knobs), T32XW, stainless steel	80251748
Column Kits, painted steel: fixed height	80251743 (35cm) / 80251744 (70cm)
Column Kits, stainless steel: fixed height	80251745 (35cm) / 80251746 (70cm)

Approvals

• Safety and EMC: EN60950, EN61326, FCC, CE.

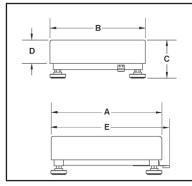
• Type Approval/Legal-for-Trade:

- T31xx/T32XW Series Indicator: EC Type approval and Test Certificate: TC7085 / T5980

- Base/Load Cell: OIML R60/2000-NL1-03.10 / TC5382; OIML R60/2000-NL1-03.14 / TC5367

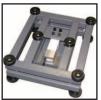
Quality: Ohaus quality management system registered to ISO 9001:2008

Outline Dimensions, Bases





Three base sizes



Painted steel version 'R' size



Stainless steel version 'R' size

Angular tubular frame design without compromise on durability

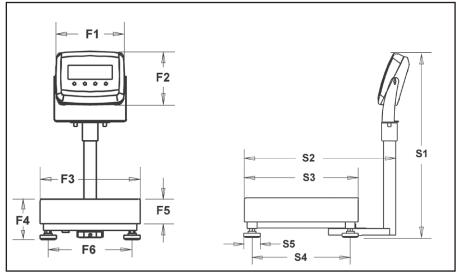
Ohaus Number

Defender[™] 3000 Bench Scales

Models:*	D31P30BR	D31P60BR	D31P60BL	D31P150BL	D31P150BX	D31P300BX	
Indicator Unit		T31P (wall mount bracket included with scale)					
Base Unit	D30BR	D60BR	D60BL	D150BL	D150BX	D300BX	
Column	350 mm fixed h	eight, painted steel		700 mm fixed hei	ght, painted steel		
Net Weight	12 kg		19 kg		32 kg		
Shipping Weight	15 kg		23 kg		37 kg / 82		
Scale Models:*	D32XW30BR	D32XW60BR	D32XW60BL	D32XW150BL	D32XW150BX	D32XW300BX	
Indicator Unit			T3:	2XW	^	•	
Base Unit	D30BR	D60BR	D60BL	D150BL	D150BX	D300BX	
Column	350 mm fixed h	eight, stainless steel	700 mm fixed height, stainless steel				
Net Weight		15 kg	23	kg	33	kg	
Shipping Weight		18 kg	26 kg		38 kg		
Scale Models:*	D32XW30VR	D32XW60VR	D32XW60VL	D32XW150VL	D32XW150VX	D32XW300VX	
Indicator Unit			T32XW				
Base Unit	D30VR	D60VR	D60VL	D150VL	D150VX	D300VX	
Column	350 mm fixed h	eight, stainless steel		700 mm fixed hei	ght, stainless steel		
Net Weight		15 kg	24 kg	27 kg	38 kg		
Shipping Weight		19 kg	28 kg	30 kg	44 kg		
Capacity (max) x Enhanced Readability (d)	30kg x 5g	60kg x 10g	60kg x 10g	150kg x 20g	150kg x 50g	300kg x 50g	
Max Displayed Resolution	1:6000			1:7	500 1:6000		
Capacity (max) x Approvable Readability (e)	30kg x 10g	60kg x 20g	60kg x 20g	150kg x 50g	150kg x 50g	300kg x 100g	
Approval Resolution	1:3000	1:3000	1:3000	1:3000	1:3000	1:3000	
Front View Dimensions (F1 x F2 x F3 x F4 x F5 x F6)	210 x 166 x 305 x 119 x 75 x 256 mm		210 x 166 x 420 x 145 x 80 x 371 mm		210 x 166 x 500 x 154 x 90 x 440 mm		
Side View Dimensions (S1 x S2 x S3 x S4 x S5)	572 x 472 x 3	55 x 306 x 52 mm	920 x 668 x 550) x 500 x 52 mm	920 x 740 x 650) x 590 x 52 mm	
Shipping Dimensions	642 x 49	97 x 212 mm	857 x 564 x 225 mm		1,022 x 687 x 247 mm		

*Notes: Not all models may be available in your area; check availability with your authorized Ohaus representative. Refer to component specifications for all other technical data. Column and wall mount braket are supplied with scales.

Outline Dimensions, Scales





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