



Industry Products

High Performance Balances and Scales



Ingenuously Practical

Asia Pacific



Headquartered in Parsippany, NJ. For more than a century, the OHAUS name has been synonymous with high-quality, durable and reliable mechanical and electronic balances, scales and moisture analyzers that meet the weighing needs of virtually every industry. Our global and long-standing success can be attributed to our unwavering commitment to offering a wide range of products that are efficient and simple to use.

ABOUT OHAUS

Our ingeniously practical methodology, seen in all of our products and services, provides real-world benefits that improve the accuracy and quality of our customers' work.

Four principles lead us to fulfill our commitment to meeting our customers' expectations and achieve excellence in every aspect of our business.

Our rich heritage and history, industry leadership, product portfolio, as well as service and support are the qualities that drive us to meet our goals and achieve the highest level of performance. These principles, The OHAUS Advantage, guide our operation and propel us to offer our customers a level of quality that is second-to-none.

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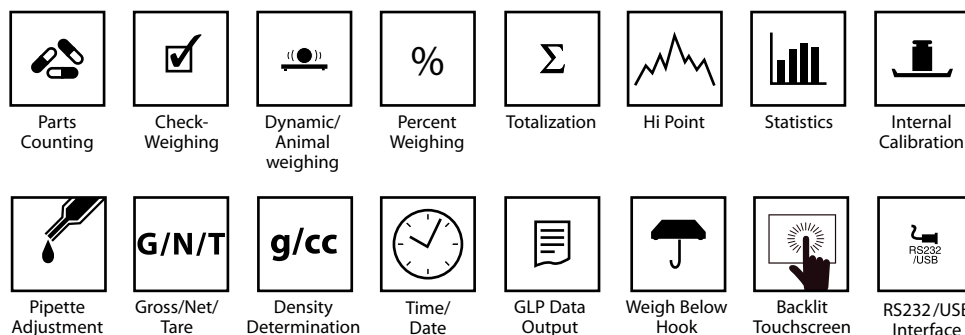
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Industrial Balances

EXPLORER®

The industry's most easy-to-use balance

- SmarText 2.0 software with full color touch screen display guides users through the weighing process
- AutoCal™ automatic balance calibration—no need for external masses
- Touch-free operation—two sensors on the base and two on the display
- QWERTY keyboard and numeric keypad
- Fast stabilization time—up to 50% faster than previous generation
- Superior vibration filtering—provides balance stability in unstable environments
- Frameless, flip-top draftshield provides unobstructed access to the weighing chamber
- Library function to store and recall customized applications
- Data Transfer Function helps to output data directly into Microsoft Excel
- Standard USB and RS232 and an optional third port (either RS232 or Ethernet)



UP TO THIRTEEN
OPERATING
LANGUAGES!

**NTEP CERTIFIED
MODELS AVAILABLE**

Model*	EX223**	EX423**	EX623**	EX1103**	EX2202	EX4202	EX6202	EX10202	EX6201	EX10201
External Calibration	EX223/E	EX423/E	-	-	EX2202/E	EX4202/E	EX6202/E	-	EX6201/E	-
Capacity (g)	220	420	620	1100	2200	4200	6200	10200	6200	10200
Readability (g)	0.001				0.01				0.1	
Repeatability std (g)	±0.001				±0.01				±0.1	
Linearity (g)	±0.002				±0.02				±0.1	
Typical Min-Weight (USP, K=3, U=0.1%)	2.1g				21g				210g	
Typical Min-Weight (GLP, K=2, U=0.1%)	1.4g				14g				140g	
PanSize (in/mm)	Ø5.1 / 130				7.5 × 7.9 / 190 × 200					
Display Housing (W×H×D) (in/mm)	7.7 × 3.5 × 6.0 / 195 × 90 × 154									
Base Housing (W×H×D) (in/mm)	9.1 × 13.8 × 15.5 / 230 × 350 × 393				9.1 × 3.9 × 15.5 / 230 × 98 × 393					

Note: 1. Includes Draftshield

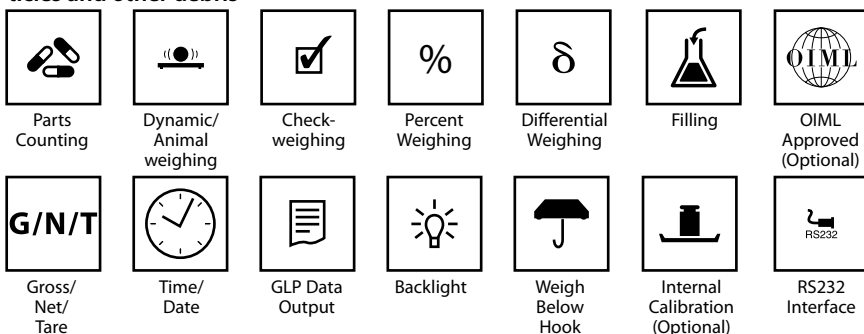
Explorer® Accessories	
OHAUS #	Description
83021102	Tower Mount for Display
83021083	Display Extension Cable
83021084	Draftshield Kit (0.01g, 0.1g, excluding High Capacity models)
83021086	Foot Switch Kit
80251396	Auxiliary Display PAD7
30045641	SF40A Impact Printer
12122603	RS232 Cable SF40A Impact Printer
30078078	Extension Cable 9m

High Capacity Industrial Balances

Explorer®

Logical, Intuitive and Easy to Use

- 5.7" Color VGA touch screen optimizes viewing and menu navigation
- Two sensors on display offer hands-free operation
- The display can be separated from the base up to 1.5 meters in order to fit operational needs in almost any workspace. A 9 meter cable is also available when additional flexibility is needed.
- With a die-cast metal base, 377 × 311 mm stainless steel pan and thick metal housing, Explorer High Capacity is built to withstand daily wear and tear
- IP54 protection guards balance and weighing cell from damage by dry particles and other debris



Model	EX12001	EX24001	EX35001
Capacity (g)	12000	24000	35000
Readability (g)	0.1	0.1	0.1
Linearity (g)	±0.2	±0.2	±0.2
Stabilization Time	≤1	≤1	≤1
Sensitivity Draft (PPM/°C)	3	3	3
Typical Min-Weight (USP, K=3, U=0.1%)	210g	210g	210g
Typical Min-Weight (GLP K=2, U=0.1%)	140g	140g	140g
Weighing Applications	Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/Animal Weighing, Filling, Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, SQC		
Weighing Units	g, kg, ct, gn, lb, oz, ozt, N, dwt, hkt, sgt, twt, mom, tical, msg, tola, Custom Unit 1, Custom Unit 2, Custom Unit 3		
Weighing Units, Approved Models	g, kg, ct		
Pan Size (in/cm)	377 × 311 mm		
Calibration	AutoCal™ internal calibration		
Tare Range	To capacity by subtraction		
Power Requirement	AC Adapter Input: 100-240 VAC 0.6A 50-60 Hz		
Display Type	Full-color VGA graphic display, 4-wire resistive touch screen		
Display Housing (W × H × D)	195 × 90 × 154 mm		
Base Housing (W × H × D)	377 × 120 × 443 mm		
Shipping Dimensions	665 × 525 × 330 mm		



Shown with optional rolling feet and tower mount

Explorer® Accessories	
OHAUS #	Description
30078082	Tower Kit for high capacity
30041295	External Rechargeable Battery Pack for high capacity
30045641	SF40A Impact Printer
12122603	RS232 Cable SF40A Impact Printer
80251396	Auxiliary Display PAD7
30041470	Adjustable Rolling Feet for high capacity
30078078	Extension Cable 9m

Bench

DEFENDER® 5000 WASH DOWN BENCH SCALES

Multifunctional Stainless Steel Washdown
Bench Scale for Standard Industrial Applications

- Indicator Guides The User with On-Screen Prompts
- Durably Constructed To Withstand Harsh Industrial Environments
- Multiple Application Modes and High Storage Capacity for Greater Flexibility
- Multiple Connectivity Options for Convenient Data Transfer and Storage



Application Modes



Weighing: Determine the weight of items in the selected unit of measure.



Parts Counting: Count samples of uniform weight. Advanced auto-optimization software recalculates the average piece of weight as the overall weight increases.



Checkweighing/Counting: Compare the weight/count of a sample against target limits. Connect with Discrete I/O and Light Tower Kit for external check lights.

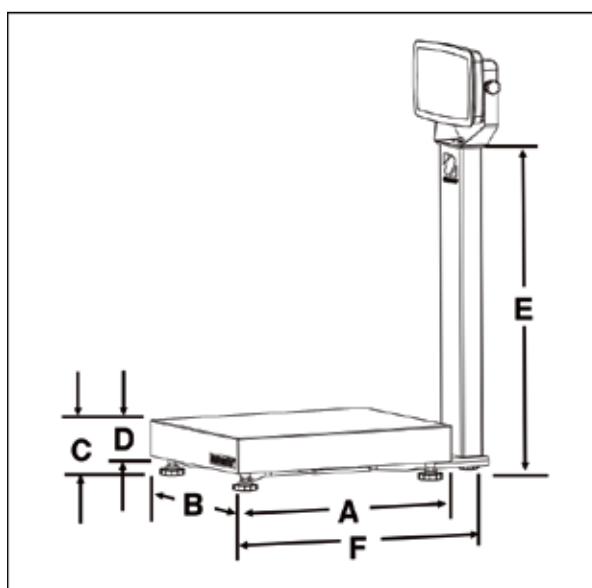


Percent Weighing: Measure the weight of a sample displayed as a percentage of a pre-established reference weight.



Dynamic Weighing and Display Hold: Weigh an unstable load. Scale takes an average of weights over a period of time. The Display Hold feature manually and automatically holds the last stable weight on the display.

Dimensions



Column Mount Bench Scale Specifications

Model	D52XW 6W QDR6	D52XW 15W QDR6	D52XW 15W QDL7	D52XW 30W QDL7	D52XW 60W QDL7
Capacity × Readability	3/6 kg × 0.2/0.5 g	6/15 kg × 0.5/1 g		15/30 kg × 1/2 g	30/60 kg × 2/5 g
Min APW (g)	0.01	0.025		0.05	0.1
Internal Counting Resolution	1: 600000				
Linearity/ Repeatability	± 2d				
Indicator	TD52XW				
Column	374 mm stainless steel		704 mm stainless steel		
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon-sealed IP67 aluminum loadcell				
Base Dimensions	305 × 305 mm		400 × 400 mm		
Safe Overload Capacity	150% of maximum capacity				
Stabilization Time	Within 1 second				
Operating Temperature Range	-10 °C to 40 °C				
Scale Dimensions (A × B × C × D × E × F)	305 × 305 × 95 × 60 × 382 × 442 mm		400 × 400 × 110 × 70 × 711 × 570 mm		

Model	D52XW60WTDL7	D52XW150WTDL7	D52XW60WQDX7	D52XW150WQDX7	D52XW60WQDV8
Capacity × Readability	30/60 kg × 2/5 g	60/150 kg × 5/10 g	30/60 kg × 2/5 g	60/150 kg × 5/10 g	30/60 kg × 2/5 g
Min APW (g)	0.1	0.25	0.1	0.25	0.1
Internal Counting Resolution	1: 600000				
Linearity/ Repeatability	± 2d				
Indicator	TD52XW				
Column	704 mm stainless steel				1004 mm stainless steel
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon-sealed IP67 aluminum loadcell				
Base Dimensions	400 × 500 mm		500 × 500 mm		610 × 610 mm
Safe Overload Capacity	150% of maximum capacity				
Stabilization Time	Within 1 second				
Operating Temperature Range	-10 °C to 40 °C				
Scale Dimensions (A × B × C × D × E × F)	400 × 500 × 120 × 80 × 711 × 665 mm		500 × 500 × 120 × 80 × 711 × 665 mm		610 × 610 × 130 × 90 × 1011 × 773 mm

Model	D52XW150WQDV8	D52XW300WQDV8	D52XW150WTDV8	D52XW300WTDV8	D52XW600WTDV8
Capacity × Readability	60/150 kg × 5/10 g	150/300 kg × 10/20 g	60/150 kg × 5/10 g	150/300 kg × 10/20 g	300/600 kg × 20/50 g
Min APW (g)	0.25	0.5	0.25	0.5	1
Internal Counting Resolution	1: 600000				
Linearity/ Repeatability	± 2d				
Indicator	TD52XW				
Column	1004 mm stainless steel				
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon-sealed IP67 aluminum loadcell				
Base Dimensions	610 × 610 mm		600 × 800 mm		
Safe Overload Capacity	150% of maximum capacity				
Stabilization Time	Within 1 second				
Operating Temperature Range	-10 °C to 40 °C				
Scale Dimensions (A × B × C × D × E × F)	610 × 610 × 130 × 90 × 1011 × 773 mm		600 × 800 × 132 × 90 × 1011 × 963 mm		

Accessories

OHAUS#	Description
30424405	Battery Kit, Li-ion, TD52
30424406	USB Host for Dongle, TD52
30424021	Light Tower, R-Y-G, IP65, 24VDC
30424022	In-use Cover Kit, TD52P
30424023	In-use Cover Kit, TD52XW
30469948	In-use Cover set (10), TD52P
30469949	In-use Cover set (10), TD52XW
30424025	Printer Holder Kit, D52
30424026	Wall Mount Kit, SST, TD52XW
30424027	Wall Mount Kit, CS, TD52P
30424409	LC Extension Cable, 9 meters, D52 ¹
30379716	M16 Gland with Ferrite, to TD52
30303533	Micro SD Card, 8G
30424403	Analog Output Kit, TD52 ³
30424404	Second RS232/RS485/USB Kit, TD52 ³
30097591	I/O with Relay (2 In/4 Out) ³
30412537	WiFi/BT Dongle, OHAUS ² (Requires 30424406)
30429666	Ethernet Kit, D52 ²
30372146	Wheel Kit, Defender Series ¹
30045641	Printer SF40A

Note: 1. Cannot be used for legal-for-trade applications.

2. Only one of them can be used at the same time.

3. Only one of them can be used at the same time

Bench

DEFENDER® 5000 WASH DOWN BENCH SCALES

Multifunctional Stainless Steel

Washdown Bench Scale for Standard Industrial Applications

- Indicator Guides The User with On-Screen Prompts
- Durably Constructed To Withstand Harsh Industrial Environments
- Multiple Application Modes and High Storage Capacity for Greater Flexibility
- Multiple Connectivity Options for Convenient Data Transfer and Storage



Application Modes



Weighing: Determine the weight of items in the selected unit of measure.



Parts Counting: Count samples of uniform weight. Advanced auto-optimization software recalculates the average piece of weight as the overall weight increases.



Checkweighing/Counting: Compare the weight/count of a sample against target limits. Connect with Discrete I/O and Light Tower Kit for external check lights.

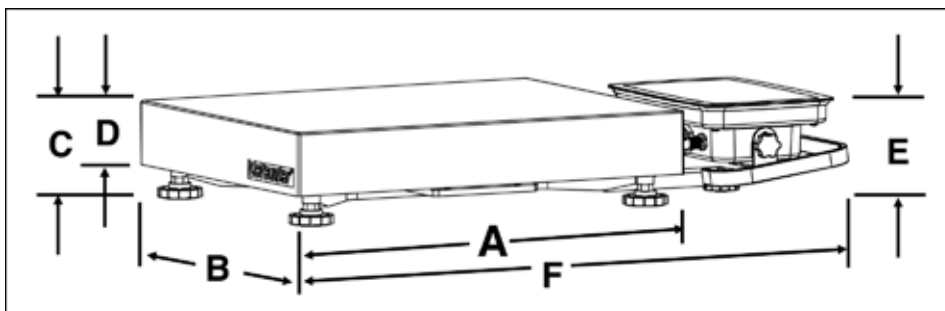


Percent Weighing: Measure the weight of a sample displayed as a percentage of a pre-established reference weight.



Dynamic Weighing and Display Hold: Weigh an unstable load. Scale takes an average of weights over a period of time. The Display Hold feature manually and automatically holds the last stable weight on the display.

Dimensions



Washdown Front Mount Bench Scale Specifications

Model	D52XW6WQDR5	D52XW15WQDR5	D52XW15WQDL5	D52XW30WQDL5	D52XW60WQDL5
Capacity × Readability	3/6 kg × 0.2/0.5 g	6/15 kg × 0.5/1 g		15/30 kg × 1/2 g	30/60 kg × 2/5 g
Min APW (g)	0.01	0.025		0.05	0.1
Internal Counting Resolution	1:600000				
Linearity/Repeatability	± 2d				
Indicator	TD52XW				
Mount	Stainless steel front-mount bracket with handle				
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon sealed IP67 aluminum loadcell				
Base Dimensions	305 × 305 mm		400 × 400 mm		
Safe Overload Capacity	150% of maximum capacity				
Stabilization Time	Within 1 second				
Operating Temperature Range	-10°C to 40°C				
Scale Dimensions (A × B × C × D × E × F)	305 × 305 × 95 × 60 × 118 × 588 mm		400 × 400 × 110 × 70 × 118 × 677 mm		

Model	D52XW60WTDL5	D52XW150WTDL5	D52XW60WQDX5	D52XW150WQDX5
Capacity × Readability	30/60 kg × 2/5g	60/150 kg × 5/10 g	30/60 kg × 2/5g	60/150 kg × 5/10 g
Min APW (g)	0.1	0.25	0.1	0.25
Internal Counting Resolution	1:600000			
Linearity/Repeatability	± 2d			
Indicator	TD52XW			
Mount	Stainless steel front-mount bracket with handle			
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction, aluminum loadcell silicon-sealed against moisture			
Base Dimensions	400 × 500 mm		500 × 500 mm	
Safe Overload Capacity	150% of maximum capacity			
Stabilization Time	Within 1 second			
Operating Temperature Range	-10°C to 40°C			
Scale Dimensions (A × B × C × D × E × F)	400 × 500 × 120 × 80 × 118 × 772mm		500 × 500 × 120 × 80 × 118 × 772mm	

Accessories

OHAUS#	Description
30424405	Battery Kit, Li-ion, TD52
30424406	USB Host for Dongle, TD52
30424021	Light Tower, R-Y-G, IP65, 24VDC
30424022	In-use Cover Kit, TD52P
30424023	In-use Cover Kit, TD52XW
30469948	In-use Cover set (10), TD52P
30469949	In-use Cover set (10), TD52XW
30424025	Printer Holder Kit, D52
30424026	Wall Mount Kit, SST, TD52XW
30424027	Wall Mount Kit, CS, TD52P
30424409	LC Extension Cable, 9 meters, D52 ¹
30379716	M16 Gland with Ferrite, to TD52
30303533	Micro SD Card, 8G
30424403	Analog Output Kit, TD52 ³
30424404	Second RS232/RS485/USB Kit, TD52 ³
30097591	I/O with Relay (2 In/4 Out) ³
30412537	WiFi/BT Dongle, OHAUS ² (Requires 30424406)
30429666	Ethernet Kit, D52 ²
30372146	Wheel Kit, Defender Series ¹
30045641	Printer SF40A

Note: 1. Cannot be used for legal-for-trade applications.
 2. Only one of them can be used at the same time.
 3. Only one of them can be used at the same time

Bench

DEFENDER® 5000 STANDARD BENCH SCALES

Durable Bases for the Most Demanding of Industrial Applications

- Indicator Guides The User with On-Screen Prompts
- Durably Constructed To Withstand Harsh Industrial Environments
- Multiple Application Modes and High Storage Capacity for Greater Flexibility
- Multiple Connectivity Options for Convenient Data Transfer and Storage



Application Modes



Weighing: Determine the weight of items in the selected unit of measure.



Parts Counting: Count samples of uniform weight. Advanced auto-optimization software recalculates the average piece of weight as the overall weight increases.



Checkweighing/Counting: Compare the weight/count of a sample against target limits. Connect with Discrete I/O and Light Tower Kit for external check lights.

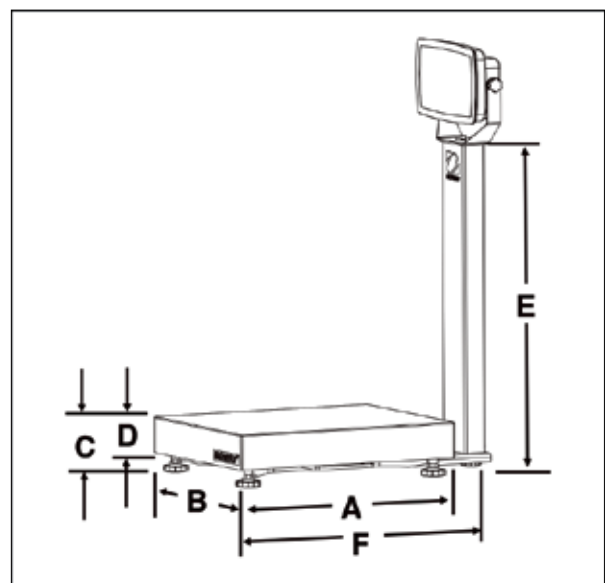


Percent Weighing: Measure the weight of a sample displayed as a percentage of a pre-established reference weight.



Dynamic Weighing and Display Hold: Weigh an unstable load. Scale takes an average of weights over a period of time. The Display Hold feature manually and automatically holds the last stable weight on the display.

Dimensions



Column Mount Bench Scale Specifications

Model	D52P6RQDR1	D52P15RQDR1	D52P15RTDR1	D52P30RTDR1	D52P60RTDR1	D52P15RQDL2	D52P30RQDL2
Capacity × Readability	3/6 kg × 0.2/0.5 g	6/15 kg × 0.5/1 g		15/30 kg × 1/2 g	30/60 kg × 2/5 g	6/15 kg × 0.5/1 g	15/30 kg × 1/2 g
Min APW (g)	0.01	0.025		0.05	0.1	0.025	0.05
Internal Counting Resolution	1:600000						
Linearity/Repeatability	±2d						
Indicator	TD52P ABS Indicator						
Column	374 mm powder-coated steel					704 mm powder-coated steel	
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction, aluminum loadcell silicon sealed against moisture						
Base Dimensions	305 × 305 mm		305 × 355 mm			400 × 400 mm	
Safe Overload Capacity	150% of maximum capacity						
Stabilization Time	Within 1 second						
Operating Temperature Range	-10°C to 40°C						
Scale Dimensions (A × B × C × D × E × F)	305 × 305 × 95 × 60 × 382 × 442 mm		305 × 355 × 99 × 60 × 382 × 491 mm			400 × 400 × 110 × 70 × 711 × 570 mm	

Model	D52P60RQDL2	D52P60RTDL2	D52P150RTDL2	D52P150RTDL2	D52P150RQDX2	D52P60RQDV3	D52P150RQDV3
Capacity × Readability	30/60 kg × 2/5 g		60/150 kg × 5/10 g	30/60 kg × 2/5 g	60/150 kg × 5/10 g	30/60 kg × 2/5 g	60/150 kg × 5/10 g
Min APW (g)	0.1		0.25	0.1	0.25	0.1	0.25
Internal Counting Resolution	1:600000						
Linearity/Repeatability	±2d						
Indicator	TD52P ABS Indicator						
Column	704 mm powder-coated steel					1004 mm powder-coated steel	
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction, aluminum loadcell silicon sealed against moisture						
Base Dimensions	400 × 400 mm	400 × 500 mm		500 × 500 mm		610 × 610 mm	
Safe Overload Capacity	150% of maximum capacity						
Stabilization Time	Within 1 second						
Operating Temperature Range	-10°C to 40°C						
Scale Dimensions (A × B × C × D × E × F)	400 × 400 × 110 × 70 × 711 × 570 mm	400 × 500 × 120 × 80 × 711 × 665 mm		500 × 500 × 120 × 80 × 711 × 665 mm		610 × 610 × 130 × 90 × 1011 × 773 mm	

Column Mount Bench Scale Specifications

Model	D52P300RQDV3	D52P150RTDV3	D52P300RTDV3	D52P600RTDV3
Capacity × Readability	150/300 kg × 10/20 g	60/150 kg × 5/10 g	150/300 kg × 10/20 g	300/600 kg × 20/50 g
Min APW (g)	0.5	0.25	0.5	1
Internal Counting Resolution	1:600000			
Linearity/Repeatability	±2d			
Indicator	TD52P ABS Indicator			
Column	1004 mm powder-coated steel			
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction, aluminum loadcell silicon sealed against moisture			
Base Dimensions	610 × 610 mm	600 × 800 mm		
Safe Overload Capacity	150% of maximum capacity			
Stabilization Time	Within 1 second			
Operating Temperature Range	-10°C to 40°C			
Scale Dimensions (A × B × C × D × E × F)	610 × 610 × 130 × 90 × 1011 × 773 mm	600 × 800 × 132 × 90 × 1011 × 963 mm		

Accessories

OHAUS#	Description
30424410	Column Kit, 35 cm, CS, D52
30424411	Column Kit, 68 cm, CS, D52
30424412	Column Kit, 98 cm, CS, D52
30424413	Column Kit, 35 cm, SST, D52
30424414	Column Kit, 68 cm, SST, D52
30424415	Column Kit, 98 cm, SST, D52
30424024	Front Mount Kit, D52
30424025	Print Holder Kit, D52
30424409	LC Extension Cable, 9 meters, D52 ¹
30429931	Load Cell Cable Adapter Kit, to D52 Base
30372146	Wheel Kit, Defender Series (for bases up to 300 kg) ¹

Note: 1. Cannot be used for legal-for-trade applications.

Bench

DEFENDER® 5000 STANDARD BENCH SCALES

Multifunctional Bench Scale for Standard Industrial Applications

- Indicator Guides The User with On-Screen Prompts
- Durably Constructed To Withstand Harsh Industrial Environments
- Multiple Application Modes and High Storage Capacity for Greater Flexibility
- Multiple Connectivity Options for Convenient Data Transfer and Storage



Application Modes



Weighing: Determine the weight of items in the selected unit of measure.



Parts Counting: Count samples of uniform weight. Advanced auto-optimization software recalculates the average piece of weight as the overall weight increases.



Checkweighing/Counting: Compare the weight/count of a sample against target limits. Connect with Discrete I/O and Light Tower Kit for external check lights.

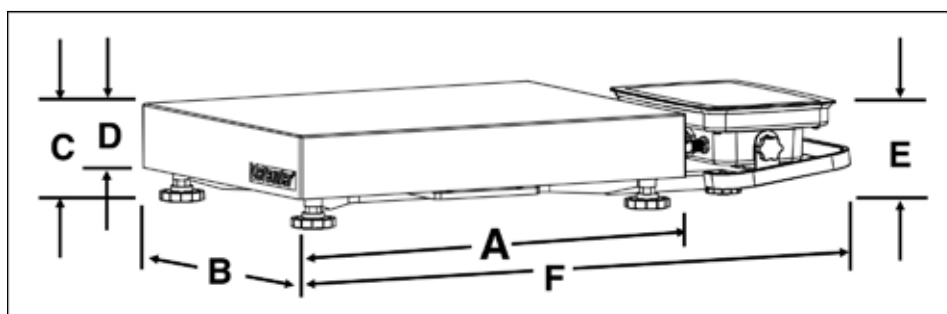


Percent Weighing: Measure the weight of a sample displayed as a percentage of a pre-established reference weight.



Dynamic Weighing and Display Hold: Weigh an unstable load. Scale takes an average of weights over a period of time. The Display Hold feature manually and automatically holds the last stable weight on the display.

Dimensions



Front Mount Bench Scale Specifications

Model	D52P6RQDR1	D52P15RQDR1	D52P15RTDR1	D52P30RTDR1	D52P60RTDR1	D52P15RQDL2	D52P30RQDL2
	D52XW6RQDR1	D52XW15RQDR1	D52XW15RQDL2	D52XW30RQDL2	D52XW60RQDL2	D52XW60RQDX2	D52XW150RQDX2
Capacity × Readability	3/6 kg × 0.2/0.5 g 6/12 lb × 0.0005/0.001lb	6/15 kg × 0.5/1 g 12/30 lb × 0.001/0.002 lb		15/30 kg × 1/2 g 30/60 lb × 0.002/0.005 lb	30/60 kg × 2/5 g 60/120 lb × 0.005/0.01 lb		30/60 kg × 2/5 g 60/120 lb × 0.005/0.01 lb
Min APW (g)	0.01	0.025		0.05	0.1		0.25
Internal Counting Resolution	1:600000						
Certified Model	D52P6RQDR1-M	D52P15RQDR1-M	D52P15RQDL2-M	D52P30RQDL2-M	D52P60RQDL2-M	D52P60RQDX2-M	D52P150RQDX2-M
	D52XW6RQDR1-M	D52XW15RQDR1-M	D52XW15RQDL2-M	D52XW30RQDL2-M	D52XW60RQDL2-M	D52XW60RQDX2-M	D52XW150RQDX2-M
Certified Capacity × Readability	3/6 kg × 1/2 g	6/15 kg × 2/5 g		15/30 kg × 5/10 g	30/60 kg × 10/20 g		60/150 kg × 20/50 g
Min APW (g)	0.05	0.1		0.25	0.5		1
Internal Counting Resolution	1:120000	1:150000		1:120000			1:150000
Linearity/Repeatability	± 2d						
Indicator	D52Pxxxx: TD52P ABS Indicator D52XWxxxx: TD52XW Stainless Steel Indicator						
Column	14.2 in / 360 mm powder-coated steel		27.7 in / 704 mm powder-coated steel				
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction, aluminum loadcell silicon-sealed against moisture						
Safe Overload Capacity	150% of maximum capacity						
Stabilization Time	Within 1 second						
Operating Temperature Range	-10°C to 40°C						
Scale Dimensions (A × B × C × D × E × F)	305 × 305 × 95 × 60 × 382× 442 mm		400 × 400 × 110 × 70 × 711 × 570 mm			500 × 500 × 120 × 80 × 711 × 665 mm	

Accessories

OHAUS#	Description
30424405	Battery Kit, Li-ion, TD52
30424406	USB Host for Dongle, TD52
30424021	Light Tower, R-Y-G, IP65, 24VDC
30424022	In-use Cover Kit, TD52P
30424023	In-use Cover Kit, TD52XW
30469948	In-use Cover set (10), TD52P
30469949	In-use Cover set (10), TD52XW
30424025	Printer Holder Kit, D52
30424026	Wall Mount Kit, SST, TD52XW
30424027	Wall Mount Kit, CS, TD52P
30424409	LC Extension Cable, 9 meters, D52 ¹
30379716	M16 Gland with Ferrite, to TD52
30303533	Micro SD Card, 8G
30424403	Analog Output Kit, TD52 ³
30424404	Second RS232/RS485/USB Kit, TD52 ³
30097591	I/O with Relay (2 In/4 Out) ³
30412537	WiFi/BT Dongle, OHAUS ² (Requires 30424406)
30429666	Ethernet Kit, D52 ²
30372146	Wheel Kit, Defender Series ¹
30045641	Printer SF40A

Note: 1. Cannot be used for legal-for-trade applications.

2. Only one of them can be used at the same time.

3. Only one of them can be used at the same time

Bench

DEFENDER™ 3000 BENCH SCALES

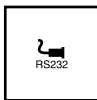
- 1:6,000-1:7,500 maximum displayed resolution
- Stainless steel pan with painted carbon steel frame and column, ABS indicator and aluminum load cell
- Backlit LCD display
- lb, oz, lb:oz, kg, g
- Parts Counting software included
- AC power adapter or 100-hour internal rechargeable lead acid battery (included)



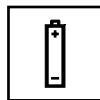
OIML



Parts
Counting



RS232



Rechargeable
Battery



Model	D31P30BR	D31P60BR	D31P60BL	D31P150BL	D31P150BX	D31P300BX
Capacity × Readability	30 × 0.005 kg	60 × 0.01 kg	60 × 0.01 kg	150 × 0.02 kg	150 × 0.02 kg	300 × 0.05 kg
Column	350 mm stainless steel		700 mm stainless steel			
Scale Base Size	305 × 355 × 123 mm		420 × 550 × 136 mm		500 × 650 × 147 mm	

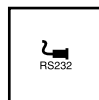
DEFENDER™ 2000

BENCH SCALES

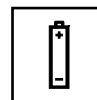
- Sturdy Industrial Design that Can Stand Up to the Rigors of Industrial Weighing
- Easy-to-Read Red LED Display Can Be Viewed in Even the Dimmest Industrial Conditions
- Versatile Power Capabilities Provide Unrestricted Operation Wherever Your Weighing Needs Are



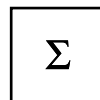
Parts
Counting



RS232
(optional)



Rechargeable
Battery



Totalization

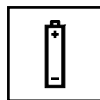


Model	D24PE30FR	D24PE60FR	D24PE60FL	D24PE150FL	D24PE150FX	D24PE300FX	D24PE300FV	D24PE600FV
Certified Capacity × Readability	30 × 0.005 kg	60 × 0.01 kg	60 × 0.01 kg	150 × 0.02 kg	150 × 0.02 kg	300 × 0.05 kg	300 × 0.05 kg	600 × 0.1 kg
Base Construction	Stainless Steel platform, painted carbon steel frame							
Platform Dimensions (W × D)	300 × 350 mm		400 × 500 mm		500 × 600 mm		600 × 800 mm	
Column	500 mm		700 mm				1000 mm	

Bench

ES ECONOMICAL BENCH SCALES

- 1:2,000–1:3,000 maximum displayed resolution
- kg, lb, oz or lb:oz*
- AC power adapter or 6 "AA" cell battery power
- Stainless steel platform/painted steel frame, ABS indicator
- Three-way mounting bracket included

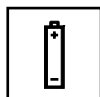


Battery Power

Model	ES6R	ES30R	ES50R	ES50L	ES100L	ES200L
Capacity × Readability	6 × 0.002 kg	30 × 0.01 kg	50 × 0.02 kg	50 × 0.02 kg	100 × 0.05 kg	200 × 0.1 kg
Typical Battery Life	Up to 120 hours / 30 hours of continuous use					
Weighing Units	kg, lb, oz, lb:oz					kg, lb, oz
Scale Base Size	31 × 27 × 4 cm			52 × 40 × 7.5 cm		
Indicator Stand	10 cm					

SD SHIPPING SCALES

- 1:1,750–1:2,000 maximum displayed resolution
- Painted steel platform with painted steel platform and ABS plastic indicator
- lb or kg units with modes for Dynamic Weighing and Display Hold
- AC power adapter (included) or 4 "C" cell battery power (not included)
- Universal table/wall mounting brackets included



Battery Power



Dynamic/
Animal Weighing



Display
Hold

Model	SD35	SD75	SD200	SD75L	SD200L
Capacity × Readability	35 × 0.02 kg	75 × 0.05 kg	200 × 0.1 kg	75 × 0.05 kg	200 × 0.1 kg
Battery Life	360 Hours				
Scale Base Size	31.6 × 28 × 4.5 cm			52 × 40 × 7.5 cm	



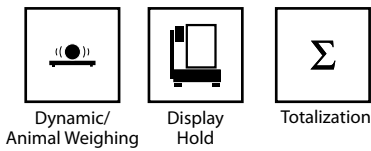
SD shipping scale
"L" model

Shipping Scale

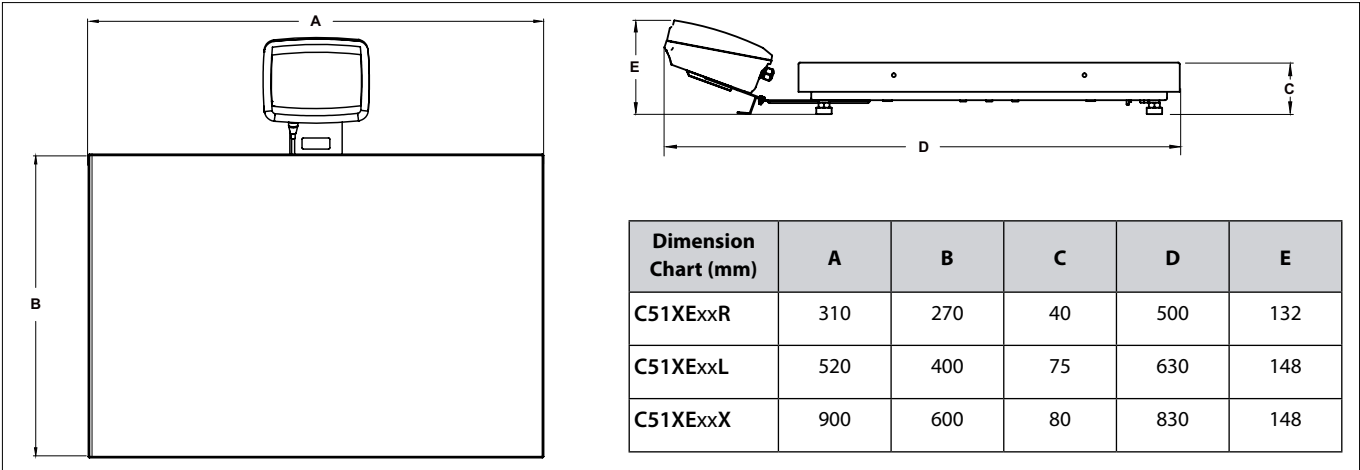
CATAPULT 5000 COMPACT SHIPPING SCALES

The Heavy-Duty Shipping Scale that Combines Utility and Economy

- The Heavy-Duty Platform Accommodates both Large and Small Packages of Varying Shapes
- The Bright LED Display Enables the Scale to be Used in Any Lighting Condition
- Versatile Data Transfer and Power Options Enhance Operation



Dimensions



Shipping Scale

CATAPULT 5000 COMPACT SHIPPING SCALES

Specifications

Model	C51XE 6R	C51XE 30R	C51XE 50R	C51XE 200R	C51XE 30L	C51XE 50L	C51XE 100L	C51XE 200L	C51XE 30X	C51XE 50X	C51XE 100X	C51XE 200X
Capacity × Readability (d) kg	6 × 0.002	30 × 0.01	50 × 0.02	200 × 0.1	30 × 0.01	50 × 0.02	100 × 0.05	200 × 0.1	30 × 0.01	50 × 0.02	100 × 0.05	200 × 0.1
Recommended Display Resolution	1:3000		1:2500	1:2000	1:3000	1:2500	1:2000		1:3000	1:2500	1:2000	
Weighing Units	kg, g, lb											
Display	6-digit, 7-segment red LED, 20 mm high digits											
Indicator Construction	ABS housing											
Keyboard	Four tactile mechanical keys											
Zero Range	2% or 100% of full scale capacity											
Tare Range	Full capacity by subtraction											
Application Modes	Weighing, Dynamic/Display Hold, Accumulation											
Stabilization Time	1 second											
Auto-Zero Tracking	Off, 0.5, 1 or 3 divisions											
Overload Capacity	Capacity 125% of rated capacity											
Power	AC adapter (included) or rechargeable lead acid battery (not included)											
Battery Life	72 hours of continuous use with a 12-hour recharge time											
Calibration	User-selectable digital external span calibration (5 kg to 100% capacity)											
Communication	RS232 (available as an accessory)											
Operating Temperature Range	-10 °C to 40 °C											
Base Construction	Stainless steel platform, painted carbon steel frame											
Column Construction	Stainless steel											
Base Dimensions (W × L × H)	310 × 270 × 40 mm				520 × 400 × 75 mm				900 × 600 × 80 mm			

Accessories


OHAUS#	Description
30101019	RS232 Kit
30101017	In- Use Cover
30064202	SF40A Impact Printer
30251812	Lead Acid battery, 6V4AH

Compact Bench


VALOR™ 7000 COMPACT BENCH SCALES

- Touchless sensors allow Valor 7000 to operate certain functions without the touch of a button, reducing scale contamination and extending the life of the scale!
- Large front and rear displays with backlights and checkweighing LED's are among Valor 7000's user-friendly features that enhance the user experience and allow two operators to share one scale.
- Valor 7000 produces accurate results within one second. The rapid stabilization virtually eliminates your wait time and allows you to move at a pace determined by you, not your weighing equipment.







OIML




NSF
Listed




USDA-AMS
Accepted




%
Percent
Weighing



Check-
weighing



Rechargeable
Battery



RS232

Model	V71P1502T	V71P3T	V71P6T	V71P15T	V71P30T
Capacity	1.5 kg	3 kg	6 kg	15kg	30kg
Readability	0.05 g	0.1 g	0.2 g	0.5 g	1 g
Certified Readability	0.5 g	1g	2g	5g	10g
Platform Size	225 x 300 mm	225 x 300 mm	225 x 300 mm	225 x 300 mm	225 x 300 mm

Compact Bench

FD SERIES COMPACT BENCH SCALES

- NSF Listed/Certified, USDA/AMS Accepted, supports HACCP-Certified Systems
- 1:6,000-1:7,500 or 1:30,000 maximum displayed resolution (by model)
- All stainless steel construction, dishwasher safe removable pan
- Backlit LCD display with checkweighing LEDs
- AC power adapter or 120 hours internal rechargeable battery (included)
- Percentage Weighing and Checkweighing software



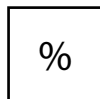
OIML



NSF
Listed



USDA-AMS
Accepted



Percent
Weighing



Check-
weighing



Rechargeable
Battery



Model	FD3H	FD6H	FD15H
Capacity × Readability	3 × 0.0001 kg 3,000 × 0.1 g	6 × 0.0002 kg 6,000 × 0.2 g	15 × 0.001 kg 15,000 × 1 g
Platform Size	209 × 209 mm		

LEGAL FOR TRADE MODELS

Model		FD3	FD6	FD15
Capacity × Readability	Default	3 × 0.0005 kg 3,000 × 0.5 g	6 × 0.001 kg 6,000 × 1 g	15 × 0.002 kg 15,000 × 2 g
	Certified / Approved	3,000 × 1 g	6,000 × 2 g	15,000 × 5 g
Platform Size		209 × 209 mm		



Optional Carrying Case,
(Model 80251394)

Compact Bench

VALOR™ 3000 XTREME PORTABLE SCALES

- NSF Listed/Certified, USDA-AMS Accepted, supports HACCP-Certified systems
- 1:3,000-1:6,000 displayed resolution (by model)
- Stainless steel construction, dishwasher-safe removable pan
- Backlit LCD display
- Specific Gravity Determination and % Weighing software included
- AC power adapter (included) or 4 “C” cell battery power (not included)



OIML



NSF
Listed



USDA-AMS
Accepted



Percent
Weighing



Specific
Gravity Mode



Battery
Power



NEMA 4X/IP65
XW Models only

SEE NEXT PAGE FOR
HIGHER RESOLUTION MODELS

Model	V31XW301	V31X3	V31XW3	V31X6	V31XW6
Capacity × Readability	0.3 × 0.0001 kg 300 × 0.1 g	3 × 0.001 kg 3,000 × 1 g	3 × 0.0005 kg 3,000 × 0.5 g	6 × 0.001 kg 6,000 × 1 g	6 × 0.001 kg 6,000 × 1 g
Battery Life	50 hours minimum	120 hours minimum	50 hours minimum	120 hours minimum	50 hours minimum
Platform Size	146 × 158 mm				
Protection	Washdown	Dry Use	Washdown	Dry Use	Washdown

Carrying Case
(scale not included)



Ice Cream
Holder



Compact Bench

VALOR™ 3000 XTREME PORTABLE SCALES

- NSF Listed/Certified, USDA-AMS Accepted, supports HACCP-Certified systems
- Stainless steel construction, dishwasher-safe removable pan
- Backlit LCD display
- Specific Gravity Determination and % Weighing software included
- AC power adapter (included) or 4 “C” cell battery power (not included)



NSF
Listed



USDA-AMS
Accepted



Percent
Weighing



Specific
Gravity Mode



Battery
Power

HIGH RESOLUTION MODELS!

Model	V31XH202	V31XH402	V31X501	V31XH2	V31XH4
Capacity × Readability	0.2 × 0.00001 kg 200 × 0.01 g	0.40000 × 0.00001 kg 400 × 0.01 g	0.5000 × 0.0001 kg 500 × 0.1 g	2 × 0.0001 kg 2,000 × 0.1 g	4.0000 × 0.0001 kg 4,000 × 0.1 g
Typical Battery Life	50 hours minimum	120 hours minimum	50 hours minimum		
Platform Size	146 × 158 mm	120 mm dia	120 mm dia	146 × 158 mm	

VALOR 3000 CARRYING CASE AND STAINLESS STEEL ACCESSORY TRAYS

Model	Description	Dimensions
80251147	Sandwich Pan	28 × 15 mm
80251148	French Fries / Taco Holder	16 × 9 mm
80251149	Ice Cream Cone Holder	16 × 12 mm
80251216	Carrying Case	42 × 32 × 14 mm

Accessory trays installed on Valor 3000—scale not included.
Trays only recommended for Valor 3000 scales with capacities 2 lb or over.

French Fries/
Taco Holder



Sandwich Pan



Compact Bench

VALOR® 4000W WASHDOWN SCALES

Legal for trade food scale that enhances safety, efficiency, and productivity even in harsh environments!

- Approvals Ensure Operation in the Most Demanding Environments
- Fast Speed, Practical Touchless Sensors, and Multiple Weighing Modes Enhance Productivity
- The Flow-Thru Design Protects Valor 4000 in Harsh Environments
- Knife Proof Keypad Prevents Damage from Sharp Objects



OIML



NSF
Listed



Totalization



Percent
Weighing



Check-
weighing



Rechargeable
Battery



Compact Bench

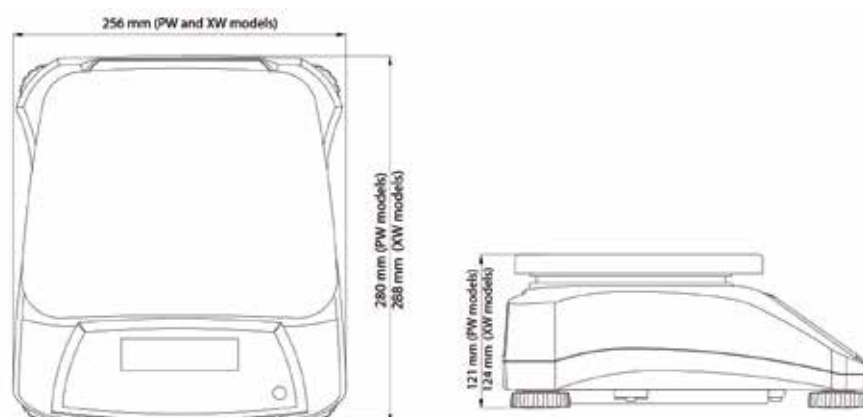
VALOR® 4000W WASHDOWN SCALES

Specifications

Model	V41PWE1501T	V41PWE3T	V41PWE6T	V41PWE15T
	V41XWE1501T	V41XWE3T	V41XWE6T	V41XWE15T
Capacity × Readability	1.5 × 0.0002 kg 1500 × 0.2 g	3 × 0.0005 kg 3000 × 0.5 g	6 × 0.001 kg 6000 × 1 g	15 × 0.002 kg 15000 × 2 g
Maximum Displayed Resolution (d)	1: 7500	1: 6000		1: 7500
Model	V41PWE1501T-M	V41PWE3T-M	V41PWE6T-M	V41PWE15T-M
	V41XWE1501T-M	V41XWE3T-M	V41XWE6T-M	V41XWE15T-M
Certified Capacity × Readability	1.5 kg × 0.0005 kg 1500 g × 0.5 g	3 kg × 0.001 kg 3000 g × 1 g	6 kg × 0.002 kg 6000 g × 2 g	15 kg × 0.005 kg 15000 g × 5 g
Certified Resolution	1: 3000			
Weighing Units	g, kg			
Application Modes	Weighing, Percent Weighing, Checkweighing, Accumulation			
Display	7 segment, 6 digit, 20.5 mm / 0.8 in high red LED dual display			
Stabilization Time	≤ 0.5 second			
Safe Overload	Capacity 150% of capacity			
Operating Temperature Range	-10 °C to 40 °C, 10% to 90% relative humidity non-condensing			
Construction	V41PW: Stainless steel platform, ABS housing V41XW: Stainless steel top housing and platform, ABS bottom housing			
Power	12V DC 0.84A, AC Universal adapter (100 - 220V AC / 50 - 60 Hz) and built - in internal rechargeable lead acid battery included			
Battery Operation	Typically 50 hours of continuous use with 12-hour full charge			
Ingress Protection	IP68 Protection			
Platform Size	190 x 242 mm			
Scale Dimensions (W x D x H)	V41PW: 256 x 280 x 121 mm V41XW: 256 x 288 x 124 mm			

*Note: Only available in selected region.

Dimensions



Compact Bench

VALOR® 2000 WASHDOWN SCALES

- With less than half a second stabilization time
- Knife resistant polycarbonate keypad
- Flow--thru design ensures the scale remains clean and operational
- NEMA 4 / IPX8 Washdown Protection
- 1:6,000 or 1:7,500 maximum displayed resolution
- ABS plastic / Stainless steel housing, dishwasher-safe removable stainless steel pan
- 7 segment, 6 digital / 20.5 mm high red LED, dual display
- Internal rechargeable sealed lead-acid battery with 50 hours continuous use



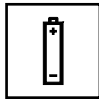
NSF
Listed



USDA-AMS
Accepted



NEMA 4/IPX8
Washdown



Rechargeable
Battery



Compact Bench

VALOR® 2000 WASHDOWN SCALES

Specifications

Model	V22PWE1501	V22PWE3	V22PWE6	V22PWE15	V22PWE30
	V22PWE1501T	V22PWE3T	V22PWE6T	V22PWE15T	V22PWE30T
	V22XWE1501T	V22XWE3T	V22XWE6T	V22XWE15T	V22XWE30T
Capacity × Readability	1.5 × 0.0002 kg 1500 × 0.2 g	3 × 0.0005 kg 3000 × 0.5 g	6 × 0.001 kg 6000 × 1 g	15 × 0.002 kg 15000 × 2 g	30 × 0.005 kg 30000 g × 5 g
Maximum Resolution	1: 6000 / 1: 7500				
Weighing Units	V22PW: g / lb ** V22XW: g, kg, lb, oz, lb: oz				
Application Modes	V22PW: Weighing V22XW: Weighing, Checkweighing				
Display	7 segment, 6 digit, 20.5 mm high red LED, dual display				
Tare Range	To capacity by subtraction				
Stabilization Time	≤ 0.5 second				
Overload Capacity	150% of capacity				
Operating Temperature Range	-10 °C to 40 °C, 10% to 90% relative humidity non-condensing				
Construction	V22PW: Stainless steel platform, ABS housing V22XW: Stainless steel platform and housing				
Power	12V DC 0.84A, AC Universal adapter (100 - 220V AC / 50 - 60 Hz) included				
Battery Life	Internal rechargeable sealed - acid battery with 50 hours continuous use				
Ingress Protection	IPX8 Water in water out				
Platform Size	190 x 242 mm				
Scale Dimensions (W x D x H)	V22PW: 280 x 256 x 121 mm V22XW: 288 x 256 x 124 mm				

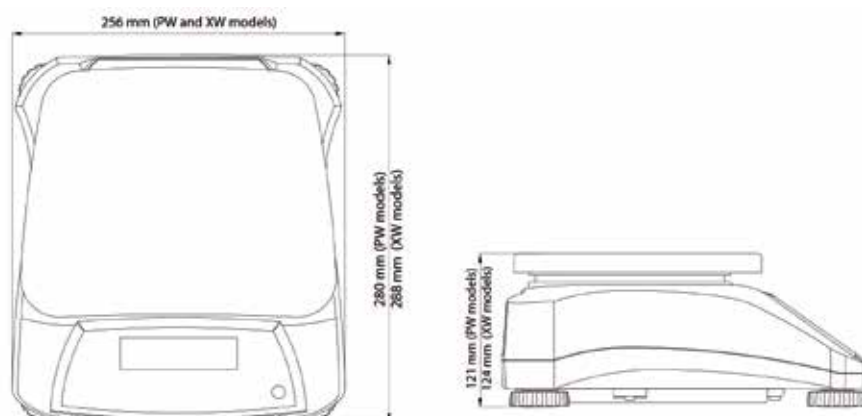
Note: 1. Models without "T" (e.g. V22PWE3) are single display versions. These are only available in certain countries.

2. Unit: g, kg, lb, oz, lb:oz can be switched in service menu by authorized service engineer.

Accessories

OHAUS#	Description
30251753	Stainless Steel Platform, 300 x 225 mm

Dimensions



Compact Bench

VALOR™ 1000 SCALES

- ABS housing, removable stainless steel pan
- 1:6,000-1:7,500 maximum displayed resolution
- NSF Listed/Certified, supports HACCP systems
- Single or dual backlit LCD display
- Checkweighing and Accumulation software included
- AC power adapter or 80 hours internal rechargeable battery (included)

NSF Listed

Checkweighing

Totalization

Rechargeable Battery

Single Display Model	V11P3	V11P6	V11P15	V11P30
Dual Display Model	V11P3T	V11P6T	V11P15T	V11P30T
Capacity × Readability	3 × 0.0005 kg 3,000 × 0.5 g	6 × 0.001 kg 6,000 × 1 g	15 × 0.002 kg 15,000 × 2 g	30 × 0.005 kg 30,000 × 5 g
Pan Size	250 × 180 mm			



CATAPULT 1000 COMPACT SHIPPING SCALES

- 1:1,500-1:2,000 maximum displayed resolution
- ABS plastic construction—Stainless steel pan cover optional
- lb or kg units with modes for Dynamic Weighing and Display Hold
- AC power adapter (included) or 4 “C” cell battery power (not included)
- Integrated handles for easy transport

Battery Power

Dynamic/Animal Weighing

Display Hold

Model	C11P9	C11P20	C11P75
Capacity × Readability	9 × 0.005 kg	20 × 0.01 kg	75 × 0.05 kg
Pan Size	316 × 280 mm		

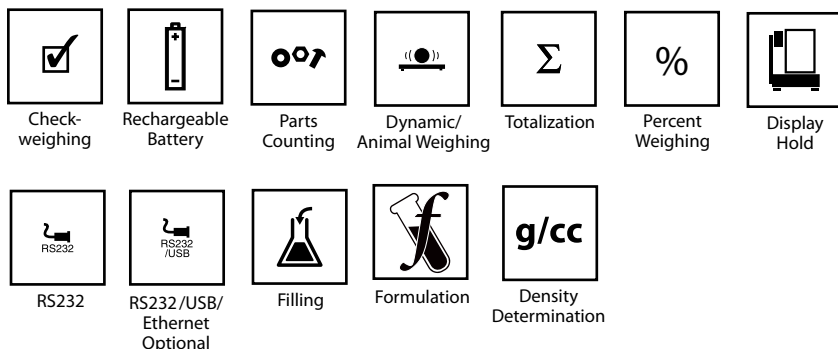


Optional
Stainless steel pan,
Model 80251248
(scale not included)

Compact Bench

RANGER® 7000 COMPACT SCALES

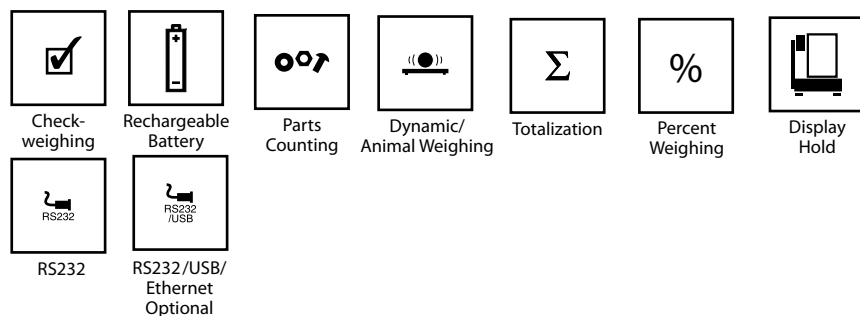
- Advanced Features Take Industrial Weighing
- Cutting-Edge SmarText™ 2.0 Software Powers the Technologically Advanced Ranger 7000
- Sturdy Industrial and Modular Design Support Flexible and Heavy-Duty Use



Model	R71MD3	R71MD6	R71MD15	R71MD35	R71MD60	R71MHD3	R71MHD6	R71MHD15	R71MHD35
Capacity	3kg	6kg	15kg	35kg	60kg	3kg	6kg	15kg	35kg
Readability	0.05g	0.1g	0.2g	0.5g	1g	0.01g	0.02g	0.1g	0.1g
Platform Size	280 × 280 × 31 mm		377 × 311 × 48mm			240 × 240 × 15 mm		377 × 311 × 48mm	

RANGER™ 4000 COMPACT SCALES

- Full Metal Housing Offers Strength and Protection and Maximizes Product Life.
- A Bright White LED Display Makes the Scale Usable Even in Dim Conditions.
- User-Friendly Software Makes Ranger 4000 Very Easy to Operate.
- Extremely Fast One Second Stabilization Time Increases Efficiency.



Models	R41ME3	R41ME6	R41ME15	R41ME30
Capacity (max) × Readability (d)	3 × 0.0001 kg 3,000 × 0.1 g	6 × 0.0002 kg 6,000 × 0.2 g	15 × 0.0005 kg 15,000 × 0.5 g	30 × 0.001 kg 30,000 × 1 g
Construction	Stainless steel platform, Die cast aluminum housing			
Application Modes	Weighing, Percent Weighing, Parts Counting, Checkweighing, Checkcounting, Checkpercent, Accumulation, Dynamic Weighing/Display Hold			
Platform Size (W × L)	300 mm × 225 mm			
Scale Dimensions (W × L × H)	315 × 327 × 122 mm			


Compact Bench

RANGER® 3000 COMPACT BENCH SCALES


The Best Compact Scale in its Class!

- Largest Display in its Class Makes Ranger 3000 Ideal for Use in All Environments
- The Most User Friendly Scale on the Market
- Rapid Stabilization Provides Unmatched Throughput
- Standard Connectivity with Flexible Options
- Portability and Versatile Power Options







Checkweighing




Rechargeable Battery




Parts Counting




Dynamic/Animal Weighing




Totalization




Percent Weighing




Display Hold




RS232



RS232/USB/
Ethernet
Optional

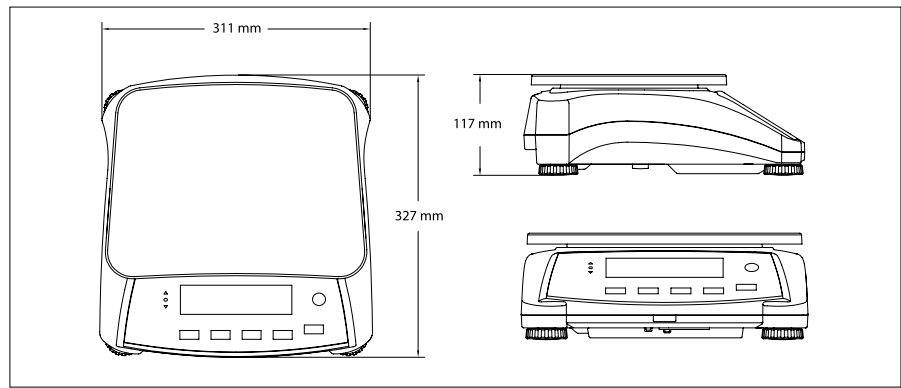


OIML



NSF
Listed

Dimensions



Model	R31P1502	R31P3	R31P6	R31P15	R31P30
Default Capacity × Readability	1.5 kg × 0.00005 kg 1500 g × 0.05 g	3 kg × 0.0001 kg 3000 g × 0.1 g	6 kg × 0.0002 kg 6000 g × 0.2 g	15 kg × 0.0005 kg 15000 g × 0.5 g	30 kg × 0.001 kg 30000 g × 1 g
Certified Model	R31P1502-M	R31P3-M	R31P6-M	R31P15-M	R31P30-M
Certified Capacity × Readability	1.5 kg × 0.0005 kg 1500 g × 0.5 g	3 kg × 0.001 kg 3000 g × 1 g	6 kg × 0.002 kg 6000 g × 2 g	15 kg × 0.005 kg 15000 g × 5 g	30 kg × 0.01 kg 30000 g × 10 g
Maximum Displayed Resolution	1: 30000				
Construction	ABS housing, stainless steel platform				
Application Modes	Weighing, Percent Weighing, Parts Counting, Checkweighing, Checkcounting, Checkpercent, Accumulation, Dynamic Weighing/Display Hold				
Pan Size (W × L)	300 mm x 225 mm				

*Note: Only available in selected region.

Compact Bench

RANGER™ 2000 COMPACT SCALES

- Red LED Display
- AC Power (Included) or Rechargeable Battery (Included)
- Easy Access RS232 Communication Port
- ABS Housing, ABS Platform with Stainless Steel Inset
- 110 hours of battery life
- 3 LED (yellow, green, red) checkweighing lights with selectable operation and audible signal settings
- Transportation handle



Checkweighing	Rechargeable Battery	Parts Counting	Dynamic/Animal Weighing	Totalization	Percent Weighing	Display Hold	RS232	RS232/USB/Ethernet Optional

Model	R21PE1502	R21PE3	R21PE6	R21PE15	R21PE30
Capacity	1.5kg	3kg	6kg	15kg	30kg
Readability	0.05g	0.1g	0.2g	0.5g	1g
Platform Size	225 mm x 300 mm	225 mm x 300 mm	225 mm x 300 mm	225 mm x 300 mm	225 mm x 300 mm

*Note: Only available in selected region.

Portable

NAVIGATOR® PORTABLE SCALE

- Dual multi-functional touch-free sensors
- 1 second stabilization time for results in a snap
- 1:16,000 – 1:20,000 displayed resolution (by model)
- ABS housing with removable stainless steel pan
- Large LED display makes it easy to read
- Percent weighing, counting, display hold and totalization modes
- RS232, USB or Ethernet interfaces available as optional accessory
- AC power or internal rechargeable battery (both included)



Parts Counting	Backlight	Checkweighing	Percent Weighing	Totalization	Rechargeable Battery	RS232/USB/Ethernet Optional	Display Hold

Navigator XT	NVT1601/2	NVT3201/2	NVT6401/2	NVT10001/2	NVT16000/2
Capacity (g)	1600	3200	6400	10000	16000
Readability (g)	0.1	0.2	0.5	0.5	1
Linearity (g)	±0.2	±0.4	±1	±1	±2
Span Cal Mass (kg)	1	2	5	10	10
Pan Size (W x D)	230 x 174 mm				
Scale Dimensions (W x D x H)	240 x 250 x 70 mm				


MODELS COULD BE DIFFERENT IN EACH COUNTRY. CONTACT YOUR DEALER MANAGER FOR INFORMATION.


Navigator® Options	
83032106	Battery Rechargeable Kit, Navigator NVT
83032107	RS232 Interface Kit, Navigator Series
83032108	USB Interface Kit, Navigator Series
83032109	Ethernet Interface Kit, Navigator Series
83032221	In-Use Cover, Navigator NVT
83032225	Carrying Case, Navigator NVT
80850000	Anti theft device


Counting


RANGER™ COUNT 4000 PACT COUNTING SCALES


- Full Metal Housing Offers Strength and Protection and Maximizes Product Life.
- Precise Counting and Weighing Performance Produce Undoubtedly Accurate Results.
- User-Friendly Software Makes Ranger Count 4000 Very Easy to Operate.
- Several Connectivity Options Provide Connection to Multiple Peripheral Devices.



Checkweighing


Rechargeable Battery


Parts Counting


Totalization


RS232


RS232/USB/
Ethernet
Optional





Models	RC41M3	RC41M6	RC41M15	RC41M30
Capacity × Readability	3 × 0.0001 kg 3,000 × 0.1 g	6 × 0.0002 kg 6,000 × 0.2 g	15 × 0.0005 kg 15,000 × 0.5 g	30 × 0.001 kg 30,000 × 1 g
Construction	Stainless steel platform, Die cast aluminum housing			
Application Modes	Weighing, Parts Counting, Checkweighing, Checkcounting, Accumulation			
Platform Size (W × L)	300 mm × 225 mm			


RANGER® COUNT 3000 COMPACT COUNTING SCALES


The Best Compact Scale in its Class!


- Precise Counting and Weighing Performance with 30 Item Library
- The Most User Friendly Counting Scale on the Market
- Rapid Stabilization Provides Unmatched Throughput
- More Connectivity Options than any other Compact Counting Scale
- Portability and Versatile Power Options



Checkweighing



Parts Counting


Totalization


RS232

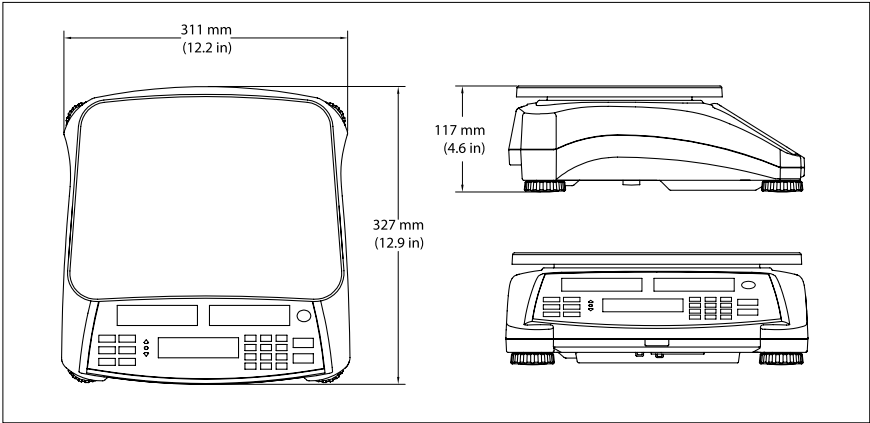

Rechargeable Battery


RS232/USB/
Ethernet
Optional


NTEP
Certified
(Optional)



Dimensions



Counting

RANGER® COUNT 3000 COMPACT COUNTING SCALES







Specifications

Model	RC31P1502	RC31P3	RC31P6	RC31P15	RC31P30
Default Capacity × Readability	1.5 kg × 0.00005 kg 1500 g × 0.05 g	3 kg × 0.0001 kg 3000 g × 0.1 g	6 kg × 0.0002 kg 6000 g × 0.2 g	15 kg × 0.0005 kg 15000 g × 0.5 g	30 kg × 0.001 kg 30000 g × 1 g
Certified Capacity × Readability	1.5 kg × 0.0005 kg 1500 g × 0.5 g	3 kg × 0.001 kg 3000 g × 1 g	6 kg × 0.002 kg 6000 g × 2 g	15 kg × 0.005 kg 15000 g × 5 g	30 kg × 0.01 kg 30000 g × 10 g
Maximum Displayed Resolution	1: 30000				
Construction	ABS housing, stainless steel platform				
Application Modes	Weighing, Parts Counting, Checkweighing, Checkcounting, Accumulation				
Pan Size (W × L)	300 mm x 225 mm				

*Note: Only available in selected region.

RANGER™ COUNT 2000 COMPACT COUNTING SCALES

- 30 item library function (stores 12-digit part numbers, average piece weights, checkcounting or checkweighing parameters, tare weights and accumulated weights or counts)
- Stable and accurate results within one second
- 3-Window Liquid Crystal Display (LCD) with Backlight
- AC Power (Included) or Rechargeable Battery (Included)
- Easy Access RS232 Communication Port
- ABS Housing, ABS Platform with Stainless Steel Inset
- 210 hours of battery life

					
Checkweighing	Parts Counting	Totalization	RS232	Rechargeable Battery	RS232/USB/Ethernet Optional



Model	RC21P1502	RC21P3	RC21P6	RC21P15	RC21P30
Capacity	1.5kg	3kg	6kg	15kg	30kg
Readability	0.05g	0.1g	0.2g	0.5g	1g
Platform Size	225 mm x 300 mm				

*Note: Only available in selected region.

Indicators

T72XW INDICATORS

- With a 50,000 displayed resolution and the ability to support up to 10 load cells, T72XW was designed for heavy-duty industrial applications including vehicle scale application.
- Two available option slots enable a wide range of connectivity interfaces.
- T72XW is very easy to set up and navigate, a vivid graphic display with on-screen prompts and an alphanumeric keypad with designated keys for common functions such as Tare and ID information.
- Print templates with customization options, report view and print modes, diagnostic and maintenance modes and password protection provide a User-Friendly Experience.



OIML



RS232



Parts Counting



Dynamic/
Animal Weighing



Check-weighing



GMP/GLP



NEMA 4X IP66



RS232 x2
(Optional)



RS422/
RS485
(Optional)

Model	T72XW
Capacity Range	1 to 998000 (t, kg, g or lb)
Max. Displayed Resolution	1:50,000
Maximum Counting Resolution	1:6,000
Operating Temperature Range	-10 °C to 40 °C
Stabilization Time	Within 2 seconds
Auto-Zero Tracking Capture Range	Off, 0.5d, 1d, 3d or 10d
Zeroing Range	+/-2% or +/-20% of capacity
Load Cell Sensitivity	10 VDC
Load Cell Drive	Up to 10 x 350 Ohm load cells
Display	Transflective graphic LCD with white backlight, 240 x 96 pixels
Power	100-240 V ~ 0.15 A 50/60 Hz internal power supply
Environmental Protection	IP66
Housing	Stainless Steel
Interface	RS232 (included), SD card (included), Ethernet (optional), USB with Discrete I/O (optional), Second RS232/RS485 (optional)
Keypad	8 function, 4 navigation, 12 alpha numeric membrane switches
Enclosure Dimensions (W x D x H)	283 x 86 x 232 mm

T72 Indicator Options	
30132163	Ethernet Kit
30132164	USB with I/O kit, T72XW
30132165	COM2 Kit, T72XW

Indicators

DEFENDER® 5000 INDICATORS

Multifunctional Indicator for Standard Industrial Applications

- Indicator Guides The User with On-Screen Prompts
- Multiple Connectivity Options for Convenient Data Transfer and Storage
- Multiple Application Modes and High Storage Capacity for Greater Flexibility
- Install Easily with the 'EasyConnect' Feature



TD52P Indicator



TD52XW Indicator

Application Modes



Weighing: Determine the weight of items in the selected unit of measure.



Parts Counting: Count samples of uniform weight. Advanced auto-optimization software recalculates the average piece of weight as the overall weight increases.



Checkweighing/Counting: Compare the weight/count of a sample against target limits. Connect with Discrete I/O and Light Tower Kit for external check lights.



Percent Weighing: Measure the weight of a sample displayed as a percentage of a pre-established reference weight.



Dynamic Weighing and Display Hold: Weigh an unstable load. Scale takes an average of weights over a period of time. The Display Hold feature manually and automatically holds the last stable weight on the display.



Multiple Connectivity Options

Easy Installation



Simple Operation



Indicators

DEFENDER® 5000 INDICATORS

Indicator Specifications

Model	TD52P	TD52XW
Construction	ABS plastic, powder-coated steel bracket	304 stainless steel with sand blasted surface treatment, stainless steel bracket
Protection	N/A	IP68
A/D Conversion Rate	80 Hz	
Capacity Selections	999,999 with decimal located to five places	
Maximum Display Resolution	1:75,000	
Maximum Approved Resolution	1:10,000 (EC, OIML & NTEP/Measurement Canada) Class III or 2 × 3000e @ 0.8 µV/e (EC, OIML)	
Weighing Units	Kilogram, Gram, Pound, Ounce, Pound: Ounce, Tonne (Metric Tonne), Ton (Short Ton), Custom unit	
Application Modes	Basic Weighing, Percent Weighing, Piece Counting with Optimized APW, Checkweighing/Checkcounting, Dynamic Weighing/Display Hold	
Display	Dot matrix LCD with white LED backlight, 256 x 80 pixels	
Keyboard	6 function, 5 quick, 12 alpha numeric membrane switches	
Auto-zero Tracking	Off, 0.5 d, 1 d or 3 d	
Zeroing Range	2% or 100% of capacity	
Calibration	Zero, Span or 3-point Linear	
Span Calibration	1 kg or 1 lb to capacity	
Internal Resolution	1,137,000 counts per mV/V	
Digital Filtering/Type	Averaging	
Load Cell Excitation Voltage	5VDC	
Load Cell Drive	Up to 8 x 350 ohm load cells	
Load Cell Input Sensitivity	Up to 3 mV/V	
Stabilization Time	Within 2 seconds	
Power	100-240 VAC / 50/60 Hz Universal Power Supply, Hardwired (TD52XW) or Line Cord (TD52P), Rechargeable Lithium battery (optional)	
Battery Life	20 hours of continuous use	
Interface	Standard RS232, MicroSD Card (included) Optional Ethernet, WiFi/Bluetooth, 2 nd RS232/RS485/USB, Analog Output, 2 In/4 Out Digital I/O	
Operating Temperature Range	-10 °C to 40 °C	

Accessories

OHAUS#	Description
30412537	WiFi/BT Dongle, OHAUS ² (Requires 30424406)
30424403	Analog Output Kit, TD52 ³
30424404	Second RS232/RS485/USB Kit, TD52 ³
30424405	Battery Kit, Li-ion, TD52
30424406	USB Host for Dongle, TD52
30424021	Light Tower, R-Y-G, IP65, 24VDC
30424022	In-use Cover Kit, TD52P
30424023	In-use Cover Kit, TD52XW
30424026	Wall Mount Kit, SST, TD52XW
30424027	Wall Mount Kit, CS, TD52P
30424409	LC Extension Cable, 9 meters, D52 ¹
30379716	M16 Gland with Ferrite, to TD52
30303533	Micro SD Card, 8G
30097591	I/O with Relay (2 In/4 Out) ³
30429666	Ethernet Kit, D52 ²
30045641	Printer SF40A

Note: 1. Cannot be used for legal-for-trade applications.

2. Only one of them can be used at the same time.

3. Only one of them can be used at the same time

Indicators

3000 SERIES INDICATORS

- 20,000d maximum displayed weighing resolution
- High-impact ABS housing (Model T31P) or NEMA 4X/IP65 stainless steel housing (Model T32XW)—both models include mounting bracket
- lb, oz, combined lb:oz, kg or g
- Counting software included
- Backlit LCD display
- RS232 Interface included



T31P Indicator



T32XW Indicator



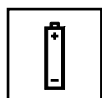
OIML



Parts
Counting



RS232



Rechargeable
Battery



NEMA 4X IP65
(T32XW
models)

Model	T31P	T32XW
Capacity Range	5 to 20,000 lb or kg	
Maximum Displayed Resolution	1:20,000	
Certified /Approved Resolution	1:6,000	
Operating Temperature Range	-10°C to 40°C	
Minimum Average Piece Weight	1d	
Stabilization Time	Within 2 Seconds	
Auto-Zero Tracking Capture Range	Off, 0.5, 1 or 3 Divisions	
Zeroing Range	2% or 100% of Capacity	
Span Calibration	5 kg or 5 lb to 100% Capacity	
Load Cell Sensitivity	Up to 3 mV/V	
Load Cell Drive	Up to four × 350 Ohm Load Cells	
Display	1 in. / 2.5 cm digit height, 6-digit, 7-segment 1.5 in. / 3.8 cm high x 4.9 in. / 12.5 cm wide backlit LCD	
Power	9 VDC, 0.5A, AC adapter or internal rechargeable, sealed lead-acid battery (100-hour typical operation with full charge)	100-240 VAC/50-60 Hz, internal power supply or internal rechargeable battery (58-hour typical operation with full charge)
Environmental Protection	Dry use	NEMA 4X / IP65
Housing	ABS Plastic	Stainless Steel
Interface	Bidirectional RS232C	
Keypad	4-button mechanical switches, raised tactile keys	4-button membrane switch, raised tactile keys
Dimensions (W × D × H)	8.2 × 2.8 × 6.5 in / 210 × 71 × 168 mm	8.3 × 2.8 × 5.8 in / 212 × 71 × 149 mm

Indicators

3000 SERIES INDICATORS

- 1:20,000 maximum displayed weighing resolution, maximum counting resolution to 1:20,000
- High-impact ABS front panel with painted carbon steel rear housing
- T32MC features 1 in. high backlit LCD display, T32ME features 0.8 in. high LED display
- Both indicators feature checkweighing LEDs (green, yellow, red)
- kg, g, lb, oz (decimal) and lb-oz weighing units
- Basic modes for counting, checkweighing, display hold and totalization
- Includes RS232 interface



T32ME Indicator
(LED version)



T32MC Indicator
(LCD version)



OIML



Parts
Counting



Check-
weighing



Display
Hold



Totalization



RS232
Interface

Model	T32MC	T32ME
Capacity Range	5 to 20,000 lb or kg	
Maximum Displayed Resolution	1:20,000	
Certified / Approved Resolution	1:6,000	
Maximum Counting Resolution	1:20,000	
Minimum Average Piece Weight	1d	
Operating Temperature Range	-10°C to 40°C	
Stabilization Time	Within 2 Seconds	
Auto-Zero Tracking Capture Range	Off, 0.5, 1 or 3 Divisions	
Zeroing Range	2% or 100% of Capacity	
Span Calibration	5 kg or 5 lb to 100% Capacity	
Load Cell Sensitivity	5V DC / up to 3 mV/V (min 1 µV/d)	
Load Cell Drive	Up to four 350Ω load cells	
Display	6-digit, 7-segment LCD 1 in / 25 mm digit height, with high-contrast white LED backlight	6-digit, 7-segment red LED 0.8 in / 20 mm digit height
Power	9-12 VDC, 0.5A, external AC adapter	
Construction	ABS Plastic front panel with painted carbon steel rear housing; includes painted carbon steel table-wall mount bracket with adjustment knobs	
Interface	Bidirectional RS232C	
Keypad	4 function mechanical switches, raised tactile keys	
Dimensions (W × D × H)	198 × 46 × 132 mm	

Bases

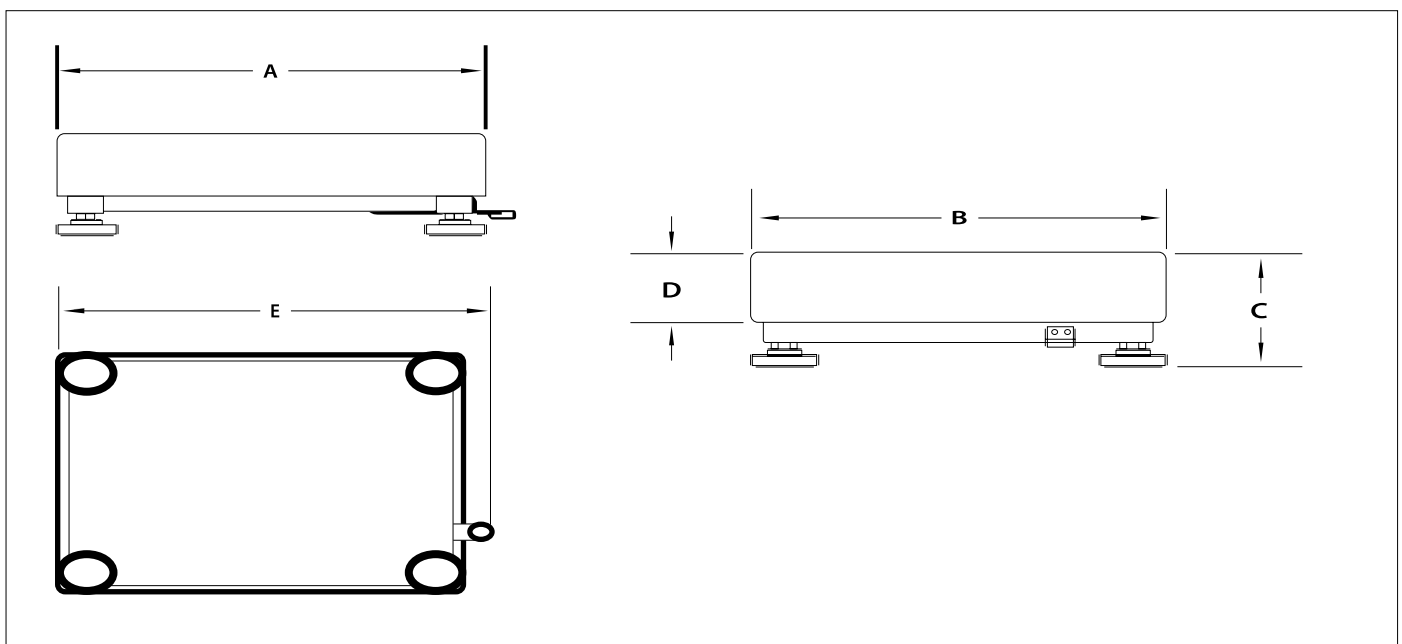
DEFENDER® 5000 BASES

Durable Bases for the Most Demanding of Industrial Applications

- Durably Constructed To Withstand Harsh Industrial Environments
- Install Easily with the EasyConnect™ Feature
- Backed by Global Approvals for Legal-for-Trade Applications



Dimensions



Bases

DEFENDER® 5000 BASES

Specifications

Model	D6RQDR	D15RQDR	D15RTDR	D30RTDR	D60RTDR	D15RQDL
Capacity × Default Readability	3/6 kg × 0.2/0.5 g	6/15 kg × 0.5/1 g		15/30 kg × 1/2 g	30/60 kg × 2/5 g	6/15 kg × 0.5/1 g
Safe Overload Capacity	150% of capacity					
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction					
Linearity/Repeatability	± 2d					
Load Cell Cable	1.5 m L × 6-wire			2 m L × 6-wire		
Load Cell Type	350 Ohm, aluminum, single point					
Load Cell Excitation	5-15V DC/AC					
Load Cell Rated Output	2mV/V					
Load Cell Protection	IP67					
Base Dimensions (B × A × C × D × F)	305 × 305 × 99 × 60 × 388 mm		355 × 305 × 99 × 60 × 388 mm			400 × 400 × 120 × 70 × 428 mm

Model	D30RQDL	D60RQDL	D60RTDL	D150RTDL	D60RQDX	D150RQDX
Capacity × Default Readability	15/30 kg × 1/2 g	30/60 kg × 2/5 g		60/150 kg × 5/10 g	30/60 kg × 2/5 g	60/150 kg × 5/10 g
Safe Overload Capacity	150% of capacity					
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction					
Linearity/Repeatability	± 2d					
Load Cell Cable	2 m L x 6-wire					
Load Cell Type	350 Ohm, aluminum, single point					
Load Cell Excitation	5-15V DC/AC					
Load Cell Rated Output	2mV/V					
Load Cell Protection	IP67					
Base Dimensions (B × A × C × D × E)	400 × 400 × 120 × 70 × 428 mm		500 × 400 × 110 × 80 × 523 mm		500 × 500 × 120 × 80 × 523 mm	

Model	D60RQDV	D150RQDV	D300RQDV	D150RTDV	D300RTDV	D600RTDV
Capacity × Default Readability	30/60 kg × 2/5 g	60/150 kg × 5/10 g	150/300 kg × 10/20 g	60/150 kg × 5/10 g	150/300 kg × 10/20 g	300/600 kg × 20/50 g
Safe Overload Capacity	150% of capacity					
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction					
Linearity/Repeatability	± 2d					
Load Cell Cable	2 m L × 6-wire					
Load Cell Type	350 Ohm, aluminum, single point					
Load Cell Excitation	5-15V DC/AC					
Load Cell Rated Output	2mV/V					
Load Cell Protection	IP67					
Base Dimensions (B × A × C × D × E)	610 × 610 × 130 × 90 × 633 mm			800 × 600 × 132 × 90 × 821 mm		

Model	D6WQDR	D15WQDR	D15WQDL	D30WQDL	D60WQDL
Capacity × Default Readability	3/6 kg × 0.2/0.5 g	6/15 kg × 0.5/1 g		15/30 kg × 1/2 g	30/60 kg × 2/5 g
Safe Overload Capacity	150% of capacity				
Base Construction	Stainless steel removable weighing platform with stainless steel frame				
Linearity/Repeatability	± 2d				
Load Cell Cable	1.5 m L × 6-wire			2 m L × 6-wire	
Load Cell Type	350 Ohm, aluminum, single point				
Load Cell Excitation	5-15V DC/AC				
Load Cell Rated Output	2mV/V				
Load Cell Protection	IP67				
Base Dimensions (R × A × C × D × E)	305 × 305 × 99 × 60 × 328 mm		400 × 400 × 120 × 70 × 423 mm		

Bases

DEFENDER® 5000 BASES

Specifications

Model	D60WTDL	D150WTDL	D60WQDX	D150WQDX	D60WQDV
Capacity × Default Readability	30/60 kg × 2/5 g	60/150 kg × 5/10 g	30/60 kg × 2/5 g	60/150 kg × 5/10 g	30/60 kg × 2/5 g
Safe Overload Capacity	150% of capacity				
Base Construction	Stainless steel removable weighing platform with stainless steel frame				
Linearity/Repeatability	± 2d				
Load Cell Cable	2 m L × 6-wire				
Load Cell Type	350 Ohm, aluminum, single point				
Load Cell Excitation	5-15V DC/AC				
Load Cell Rated Output	2mV/V				
Load Cell Protection	IP67				
Base Dimensions (B × A × C × D × E)	500 × 400 × 110 × 80 × 523 mm		500 × 500 × 120 × 80 × 523 mm		610 × 610 × 130 × 90 × 633 mm

Model	D150WQDV	D300WQDV	D150WTDV	D300WTDV	D600WTDV
Capacity × Default Readability	60/150 kg × 5/10 g	150/300 kg × 10/20 g	60/150 kg × 5/10 g	150/300 kg × 10/20 g	300/600 kg × 20/50 g
Safe Overload Capacity	150% of capacity				
Base Construction	Stainless steel removable weighing platform with stainless steel frame				
Linearity/Repeatability	± 2d				
Load Cell Cable	2 m L × 6-wire	1.5 m L x 6-wire		2 m L x 6-wire	
Load Cell Type	350 Ohm, aluminum, single point				
Load Cell Excitation	5-15V DC/AC				
Load Cell Rated Output	2mV/V				
Load Cell Protection	IP67				
Base Dimensions (B × A × C × D × E)	610 × 610 × 130 × 90 × 633 mm		800 × 600 × 132 × 90 × 822 mm		

Accessories

OHAUS#	Description
30424410	Column Kit, 35 cm, CS, D52
30424411	Column Kit, 68 cm, CS, D52
30424412	Column Kit, 98 cm, CS, D52
30424413	Column Kit, 35 cm, SST, D52
30424414	Column Kit, 68 cm, SST, D52
30424415	Column Kit, 98 cm, SST, D52
30424024	Front Mount Kit, D52
30424025	Print Holder Kit, D52
30424409	LC Extension Cable, 9 meters, D52 ¹
30429931	Load Cell Cable Adapter Kit, to D52 Base
30372146	Wheel Kit, Defender Series (for bases up to 300 kg) ¹

Note: 1. Cannot be used for legal-for-trade applications

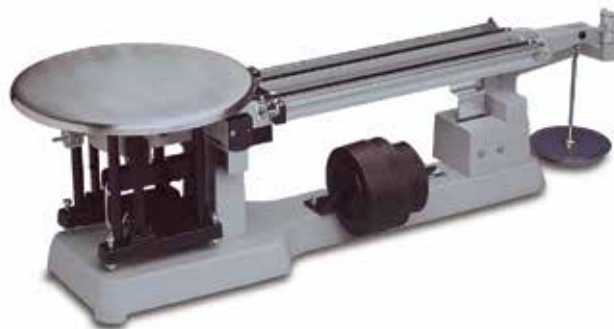
Mechanical

HEAVY DUTY SOLUTION

HIGH CAPACITY WEIGHING SCALES

- Stainless steel platform
- Positive load stops
- Oversized plate for larger containers
- Tare for containers up to 2270g
- Magnetic damping speeds the weighing process
- Covered self-aligning bearings for maintenance-free life

Model	1119-D0
Capacity × Readability	20 kg × 1 g
Calibrations	Front Beam Rear Beam
	100 g × 1 g 1000 g × 100 g
Platform Size (Diameter)	11 in / 27.9 cm



FIELD TEST

COMPACT INDUSTRIAL SCALES

- Compact, precision mechanical design
- Slotted weight set included
- Weighed base keeps scale stable
- Large, stabilized pan holds oversized samples without tipping
- Kg or lb units (by model)

Model	2400-11	2400-12
Capacity × Readability	16 kg × 5 g	36 × 0.01 lb
Beam Calibration	500 g × 5 g	1 lb × 0.01 lb
Platform Size (Diameter)	11 in / 27.9 cm	



Floor

VE ECONOMICAL FLOOR SCALE

- Durable epoxy painted weighing deck
- stainless steel junction box with easy side access and integrated DB-9 connector
- Pre-wired indicator
- Factory pre-calibrated (factory settings)
- Adjustable ball-in-cup leveling feet
- RS232 output
- Optional ramps



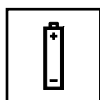
OIML



Parts
Counting



RS232



Rechargeable
Battery



Model	VE1500S31P	VE1500R31P	VE1500L31P	VE3000R31P	VE3000L31P
Capacity × Readability	1,500 × 0.5 kg	1,500 × 0.5 kg	1,500 × 0.5 kg	3,000 × 1 kg	3,000 × 1 kg
Scale Base Size	1,000 × 1,000 mm	1,250 × 1,250 mm	1,500 × 1,500 mm	1,250 × 1,250 mm	1,500 × 1,500 mm
Construction	Black painted steel platform				



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