

DEFENDER°6000

Extreme Washdown Bench Scales



Proudly Sold & Serviced By:

Able Scale Co Pty Ltd Ph: 1300 731 360

21 Green St Thomastown VIC. 3074

find us on the web: www.ablescale.com.au











Advanced IP68/IP69K Washdown Bench Scale

The Defender 6000 Series Extreme Washdown Bench Scale is specifically designed for food, chemical and pharmaceutical applications, including production and packaging. Defender 6000 handles the most demanding applications with 316 stainless steel platform and frame, and hermetically-sealed stainless steel IP69K load cell. Defender 6000 meets metrological approvals, NSF listing, and supporting HACCP systems.

Unique Features Include:

- Defender 6000 stands up to harsh cleaning in processing and packaging environments with IP68 immersion/ IP69K washdown protection, 316 stainless steel construction and hermetically-sealed load cell.
- Durable Defender 6000 is NSF certified, supporting HACCP systems with a 316 stainless steel base and sturdy indicator providing corrosion protection in food, chemical processing, and packaging.
- Versatile scales include fast weight display and multiple software modes to meet food, chemical processing, and packaging needs.
- Defender 6000 is designed for simple connectivity in a variety of application settings.

DEFENDER® 6000 Extreme Washdown Bench Scales

Defender 6000 series bench scales offer two types of indicators: a polycarbonate indicator housing for superior protection against moisture and a 316 stainless steel indicator for enhanced protection against corrosion from cleaners and additives. Equipped with a 316 stainless steel frame, platform and hermetically-sealed stainless steel load cell, the Defender 6000 series bench scales are specifically designed for washdown, enhancing food safety and reducing downtime.

Food Safe Design: NSF listed/certified, and supports HACCP compliance. Defender 6000 series bench scales are wash-down IP68/IP69K rated with a knife proof front panel to operate reliably in harsh environments.

Featuring advanced applications including configurable Checkweighing, Percent Weighing, Filling and Dynamic Weighing or Display Hold, the Defender 6000 meets the weighing needs of practically any food or chemical processing application. Easy-to-use application modes eliminate the need for long and complicated manual calculations. GMP/GLP with time/date output allows for the traceability of results.

i-D61PW models offer an optional Infrared (IR) communication kit for connectivity without opening the housing. The indicator can store up to 1,000 weighing results which can be transferred to a PC or system for traceability.

i-D61XWE models offer multiple connectivity options, including built-in RS232 and USB host, 2nd RS232/RS485/USB Device, Analog Output, Wi-Fi/Bluetooth, Ethernet and Discrete I/O with relays. Hands-free, touchless sensor reduces contamination risk.

Application Modes



Weighing:

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



Checkweighing: Compare the weight of an item against target limits. Bar matrix or 3-color check light display give clear and bright indication of weight.



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



Checkcounting: Compare the count of a package against target limits. Bar matrix or 3-color check light display give clear and bright indication of count.



Percent Weighing: Display the weight of an item as a percentage of a pre-established reference weight.



Dynamic Weighing and Display Hold: Take an average of weights for an item over a period of time to account for vibration or other interference. The Display Hold feature manually or automatically holds the last stable weight of an item on the display.

Available only in the i-D61XWE models:



Filling: Fill a container to a target weight. 3-color bar matrix displays filling status. Connect with Discrete I/O option kit for an auto-filling system.

• **Library and User Management:** Up to 300 library items (stores part number, tare weights, APWs, under/over limits, set points or reference weight) can be shared within different weighing modes. Up to 100 user IDs can be stored for secure user access and traceability.

Additional Features

Dedicated target key for quick set-up of package over/under weights, speeding up line changeovers. Fully customizable templates allow for easy data printing. 150% overload capacity protection, menu password protection, key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, low battery indicator (i-D61PW models), auto shut-off, auto tare, non-slip adjustable rubber feet.











Optional IR RS232 kit for i-D61PW model

DEFENDER® 6000 Extreme Washdown Bench Scales

Specifications

Column Mount Bench Scales

Model	i-D61XWE3K1S6	i-D61XWE6K1S6	i-D61XWE15K1R6	i-D61XWE30K1R6	i-D61XWE60K1L7	i-D61XWE150K1L7
Capacity x Default Readability	3 kg x 0.5 g	6 kg x 0.5 g	15 kg x 1 g	30 kg x 2g	60 kg x 5 g	150 kg x 10 g
Maximum Displayed Resolution	1: 6,000	1: 12,000	1: 15	5,000	1: 12,000	1: 15,000
Linearity/Repeatability	±2d					
Indicator	i-DT61XWE					
Column	260 mm 316 stainless steel 670 mm 316 stainless steel			stainless steel		
Base Construction	316 stainless steel top and bottom frame, hermetically sealed IP68/IP69K stainless steel loadcell 316 stainless steel frame, hermetically sealed IP68/IP69K stainless steel loadcell 316 stainless steel frame, hermetically sealed IP68/IP69K stainless steel loadcell			ermetically sealed IP68/IP69K		
Safe Overload Capacity			150% of maxi	mum capacity		
Stabilization Time			Within 1	second		
Operating Temperature Range	-10 °C to 40 °C					
Scale Dimensions (A x B x C x D x E x F)	250 x 250 x 106 x	- x 518 x 376 mm	300 x 300 x 106 x	300 x 300 x 106 x - x 518 x 427 mm 500 x 400 x 137 x 80 x 929 x 6		80 x 929 x 660 mm
Shipping Dimensions (L x W x H)	490 x 450 x 380 mm 1000 x 690 x 250 mm) x 250 mm		
Approx. Net Weight	10.9	5 kg	11.:	7 kg	22 kg	23.2 kg
Approx. Shipping Weight	13	kg	15	kg	25 kg	26 kg

Model	i-D61PW3K1S6	i-D61PW6K1S6	i-D61PW15K1R6	i-D61PW30K1R6	i-D61PW60K1L7	i-D61PW150K1L7
Capacity x Default Readability	3 kg x 0.5 g	6 kg x 0.5 g	15 kg x 1 g	30 kg x 2g	60 kg x 5 g	150 kg x 10 g
Maximum Displayed Resolution	1: 6,000	1: 12,000	1: 15	5,000	1: 12,000	1: 15,000
Linearity/Repeatability	±2d					
Indicator	i-DT61PW					
Column	260 mm 316 stainless steel 670 mm 316 stainless steel			stainless steel		
Base Construction	316 stainless steel top and bottom frame, hermetically sealed IP68/IP69K stainless steel loadcell 316 stainless steel removable weighing platform wi 316 stainless steel frame, hermetically sealed IP68/IP69K stainless steel loadcell 316 stainless steel rame, hermetically sealed IP68/IP69K stainless steel loadcell			ermetically sealed IP68/IP69K		
Safe Overload Capacity			150% of maxi	mum capacity		
Stabilization Time			Within 1	second		
Operating Temperature Range	-10 °C to 40 °C					
Scale Dimensions (A x B x C x D x E x F)	250 x 250 x 106 x	- x 504 x 376 mm	300 x 300 x 106 x	- x 504 x 427 mm	500 x 400 x 137 x 80 x 915 x 660 mm	
Shipping Dimensions (L x W x H)	490 x 450 x 380 mm 1000 x 690 x 250 mm			0 x 250 mm		
Approx. Net Weight	10	kg	11.:	2 kg	21.5 kg	22.7 kg
Approx. Shipping Weight			26 kg			

Front Mount Bench Scales

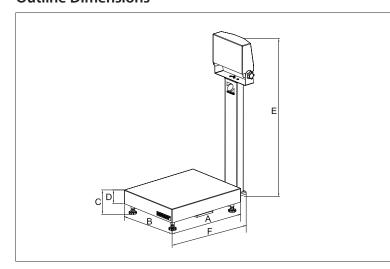
MODEL	i-D61PW3K1S5	i-D61PW6K1S5	i-D61PW15K1R5	i-D61PW30K1R5	i-D61PW60K1L5	i-D61PW150K1L5
Capacity xDefault Readability	3 kg x 0.5 g	6 kg x 0.5 g	15 kg x 1 g	30 kg x 2g	60 kg x 5 g	150 kg x 10 g
Maximum Displayed Resolution	1: 6,000	1: 12,000	1: 15,000 1: 12,000 1: 15		1: 15,000	
Linearity/Repeatability	±2d					
Indicator	i-DT61PW					
Column	316 stainless steel front-mount bracket with handle					
Base Construction	316 stainless steel top and bottom frame, hermetically sealed IP68/IP69K stainless steel loadcell 316 stainless steel removable weighing platform with 316 stainless steel frame, hermetically sealed IP68/IP69K stainless steel loadcell					
Safe Overload Capacity			150% of maxi	mum capacity		
Stabilization Time	Within 1 second					
Operating Temperature Range			-10 °C	to 40 °C		
Scale Dimensions (A x B x C x D x E x F)	250 x 250 x 106 x	- x 129 x 545 mm	300 x 300 x 106 x - x 129 x 596 mm 500 x 400 x 137 x 80 x 129 x 76		80 x 129 x 767 mm	
Shipping Dimensions (L x W x H)	490 x 450 x 380 mm 1000 x 690 x 250 mm			x 250 mm		
Approx. Net Weight	10	kg	11	2 kg	20 kg	21.2 kg
Approx. Shipping Weight	12	kg	14 kg 23 kg 24 kg			24 kg

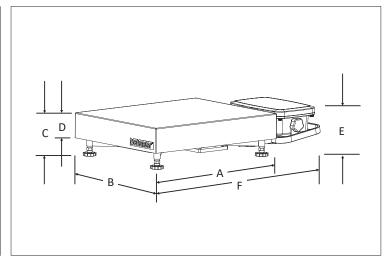
DEFENDER® 6000 Extreme Washdown Bench Scales

Indicators

MODEL	i-DT61PW	i-DT61XWE		
Construction	Polycarbonate plastic housing, 316 stainless steel bracket	316 Stainless steel housing, 316 stainless steel bracket		
Protection	IP68 immersion /	IP69K washdown		
Weighing Units	Kilogram, Gram, Pound, Ounce, Pound: Ounce, Tonne (Metric Tonne)	Kilogram, Gram, Pound, Ounce, Pound: Ounce		
Application Modes	Weighing, Checkweighing, Percent Weighing, Dynamic Weighing/Display Hold, Counting with APW optimization, Checkcounting, Filling (i-DT61XWE only)			
Display	6-digit, 7-segment LCD display with white backlight, 45 mm high digits	6-digit, 7-segment white LED, 20 mm high digits		
Check Indicator	3 Color (red, green, yellow) LED Bar	3 color (red, green, orange) 8x16 dot matrix LED		
Keyboard	6 function mechanical keys, raised, tactile	6 function keys + 12 numeric capacitive keypad		
Auto-zero Tracking	Off, 0.5 d,	1 d or 3 d		
Zeroing Range	2% or 100% of capacity			
Interface	Optional IR Communication Kit (with magnetic front panel connection)	RS232 and USB Host included Optional Ethernet, WiFi/Bluetooth, 2 nd RS232/RS485/USB Device, Analog Output, 2 In/4 Out Discrete I/O		
Power	6 x D type cell battery	100-240 VAC / 50/60 Hz Universal Power Supply, hardwired or external power bank		
Battery Life	Up to 1,600 hours continuous use with backlight off	Depends on the capacity of power bank used (Up to 55 hours with 20,000mAh power bank)		
Calibration	Zero, Span or	3 point-Linear		

Outline Dimensions





Compliance

- Metrology: EN45501 (Scale: T11889; Indicator: TC11888; Load Cell: OIML R60/2000-DE1-06.02 / D09-06.20; OIML R60/2000-NL1-12.50 / TC7648)
- Product Safety: CAN/CSA C22.2 61010-1; UL61010-1; IEC/EN 61010-1
- Electromagnetic Compatibility: IEC/EN 61326-1 Class B, basic environments; FCC Part 15 Class A; Canada ICES-003 Class A
- Food Safety: ANSI/NSF 169, NSF/ANSI/3-A 14159-1
- Ingress Protection: IEC 60529 IP68, ISO 20653 - IP69K
- Compliance Marks: CE, RCM
- Other: WEEE, RoHS



Proudly Sold & Serviced By:

Able Scale Co Pty Ltd Ph: 1300 731 360

21 Green St Thomastown VIC. 3074

find us on the web: www.ablescale.com.au

Accessories

Wi-Fi/Bluetooth Dongle i-DT61XW	30412537
Analog Output kit i-DT61XW	
2 nd RS232/RS485/USB	30424403
	20424404
Device kit i-DT61XW	
LC Extension Cable, 9 meters	30424409
M16 Gland with Ferrite	30379716
Light Tower, 3 Colors, 243mm, IP65	
(Requires 30097591)	30424021
Discrete I/O with Relay (2 In/4 Out)	
i-DT61XW	30097591
Ethernet kit i-DT61XW	30429666
External power bank holder i-DT61XW	
External power bank holder i-DT61XW (Requires external USB power bank)	30572907
(Requires external USB power bank)	80500552
(Requires external USB power bank)	80500552
(Requires external USB power bank)	80500552 30572908 30572909
(Requires external USB power bank)	80500552 30572908 30572909 30626654
(Requires external USB power bank)	80500552 30572908 30572909 30626654 30427798
(Requires external USB power bank) Cable RS232 i-DT61XW Column Kit 260 mm 316 SS Column Kit 670 mm 316 SS Front Mounting kit 316 SS i-DT61PW Pan 305 x 305 mm 304 SS Pan 254 x 254 mm 304 SS	80500552 30572908 30572909 30626654 30427798 30427799
(Requires external USB power bank)	80500552 30572908 30572909 30626654 30427798 30427799 30572910
(Requires external USB power bank)	80500552 30572908 30572909 30626654 30427798 30427799 30572910 30616409
(Requires external USB power bank)	80500552 30572908 30572909 30626654 30427798 30427799 30572910 30616409

Headquarters 7F, Block 33, 680 Guiping Road Shanghai 200233

OHAUS Asia/Pacific

China

e-mail: APmarketing@ohaus.com Tel: +86 21 64855408

www.ohaus.com

80776643_A 20210311 © Copyright OHAUS Corporation

The management system governing the manufacture of this product is ISO 9001:2015 certified.

SAP Literature 30385563

