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NICOL SCALES & MEASUREMENT

AN ISO/IEC 17025:2017
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NICOL SCALES & MEASUREMENT IS AN ISO ACCREDITED CALIBRATION COMPANY THAT HAS PROVIDED CALIBRATION, REPAIR AND SALES OF ALL TYPES OF WEIGHING AND MEASUREMENT PRODUCTS SINCE 1931.

DEFENDER®6000

Hybrid Washdown Bench Scales



Washdown Bench Scale for Standard Industrial Applications

The Defender 6000 series hybrid washdown bench scale is ideal for a multitude of applications, including production and packaging. Handles demanding applications with the Defender 6000 indicator and Defender 5000 W series washdown base. The Defender 6000 hybrid is designed to simplify demanding industrial and commercial applications.

Unique Features Include:

- Defender 6000 Hybrid stands up to harsh cleaning in processing and packaging environments with IP68 immersion/IP69K protected indicator, 304 stainless steel construction and IP67 stainless steel load cell.
- Large digits on a bright backlit LCD or white LED display quickly and clearly show results for fast processing. Color bar in i-DT61PW can be used for quick checking of package weights for fast go/no-go alert. Configurable color bar matrix in i-DT61XWE can be used for detailed checking of package weights to ensure compliance.
- Durably constructed with a stainless steel platform, frame, IP67 loadcell and IP68/69K indicator, Defender 6000 hybrid meets NTEP and Measurement Canada approvals.

DEFENDER®6000 *Hybrid Washdown Bench Scales*

Specifications

Column Mount Bench Scales (Stainless Steel Indicator)

Model	i-D61XWE2WQS6	i-D61XWE5WQS6	i-D61XWE12WQS6	i-D61XWE12WQR6	i-D61XWE25WQR6	i-D61XWE50WQR6	i-D61XWE25WQL7	i-D61XWE50WQL7	i-D61XWE125WQL7
Capacity x Default Readability	2.5 kg x 0.1g 5 lb x 0.0002 lb 80 oz x 0.005 oz	5 kg x 0.2 g 10 lb x 0.0005 lb 160 oz x 0.01 oz	12.5 kg x 0.5 g 25 lb x 0.001 lb 400 oz x 0.02 oz	12.5 kg x 0.5 g 25 lb x 0.001 lb 400 oz x 0.02 oz	25 kg x 1g 50 lb x 0.002 lb 800 oz x 0.05 oz	50 kg x 2 g 100 lb x 0.005 lb 1600 oz x 0.1 oz	25 kg x 1g 50 lb x 0.002 lb 800 oz x 0.05 oz	50 kg x 2 g 100 lb x 0.005 lb 1600 oz x 0.1 oz	125 kg x 5 g 250 lb x 0.01 lb 4000 oz x 0.2 oz
Maximum Displayed Resolution	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000
Linearity/ Repeatability	±2d								
Capacity x Certified/ Approved Readability	2.5 kg x 0.5 g 5 lb x 0.001 lb 80 oz x 0.02 oz	5 kg x 1 g 10 lb x 0.002 lb 160 oz x 0.05 oz	12.5 kg x 5 g 25 lb x 0.005 lb 400 oz x 0.1 oz	12.5 kg x 5 g 25 lb x 0.005 lb 400 oz x 0.1 oz	25 kg x 5 g 50 lb x 0.01 lb 800 oz x 0.2 oz	50 kg x 10 g 100 lb x 0.02 lb 1600 oz x 0.5 oz	25 kg x 5 g 50 lb x 0.01 lb 800 oz x 0.2 oz	50 kg x 10 g 100 lb x 0.02 lb 1600 oz x 0.5 oz	125 kg x 50 g 250 lb x 0.05 lb 4000 oz x 1 oz
Maximum Certified Resolution	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000
Indicator	i-DT61XWE								
Column	13.8 in / 350 mm stainless steel						26.8 in / 680 mm stainless steel		
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon-sealed IP67 stainless steel loadcell								
Safe Overload Capacity	150% of maximum capacity								
Stabilization Time	Within 1 second								
Operating Temperature Range	14°F to 104°F / -10°C to 40°C								
Scale Dimensions (A x B x C x D x E x F)	10 × 10 × 2.9 × 1.8 × 24.1 × 15.1 in 254 × 254 × 74 × 45 × 613 × 383 mm			12 × 12 × 3.7 × 2.4 × 24.3 × 17.4 in 305 × 305 × 95 × 60 × 617 × 442 mm			18 × 18 × 4.3 × 2.8 × 37.3 × 24.7 in 457 × 457 × 110 × 70 × 947 × 627 mm		
Shipping Dimensions (L x W x H)	18.9 × 17.5 × 14.3 in 480 × 445 × 363 mm						39.1 × 26.8 × 9.25 in 994 × 680 × 235 mm		
Approx. Net Weight	22.1 lb / 10 kg			26.5 lb / 12 kg			44.1 lb / 20 kg		
Approx. Shipping Weight	26.5 lb / 12 kg			30.9 lb / 14 kg			50.7 lb / 23 kg		

DEFENDER®6000 *Hybrid Washdown Bench Scales*

Specifications

Column Mount Bench Scales (Polycarbonate Plastic Indicator)

Model	i-D61PW2WQS6	i-D61PW5WQS6	i-D61PW12WQS6	i-D61PW12WQR6	i-D61PW25WQR6	i-D61PW50WQR6	i-D61PW25WQL7	i-D61PW50WQL7	i-D61PW125WQL7
Capacity x Default Readability	2.5 kg x 0.1g 5 lb x 0.0002 lb 80 oz x 0.005 oz	5 kg x 0.2 g 10 lb x 0.0005 lb 160 oz x 0.01 oz	12.5 kg x 0.5 g 25 lb x 0.001 lb 400 oz x 0.02 oz	12.5 kg x 0.5 g 25 lb x 0.001 lb 400 oz x 0.02 oz	25 kg x 1g 50 lb x 0.002 lb 800 oz x 0.05 oz	50 kg x 2 g 100 lb x 0.005 lb 1600 oz x 0.1 oz	25 kg x 1g 50 lb x 0.002 lb 800 oz x 0.05 oz	50 kg x 2 g 100 lb x 0.005 lb 1600 oz x 0.1 oz	125 kg x 5 g 250 lb x 0.01 lb 4000 oz x 0.2 oz
Maximum Displayed Resolution	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000
Linearity/ Repeatability	±2d								
Capacity x Certified/ Approved Readability	2.5 kg x 0.5 g 5 lb x 0.001 lb 80 oz x 0.02 oz	5 kg x 1 g 10 lb x 0.002 lb 160 oz x 0.05 oz	12.5 kg x 5 g 25 lb x 0.005 lb 400 oz x 0.1 oz	12.5 kg x 5 g 25 lb x 0.005 lb 400 oz x 0.1 oz	25 kg x 5 g 50 lb x 0.01 lb 800 oz x 0.2 oz	50 kg x 10 g 100 lb x 0.02 lb 1600 oz x 0.5 oz	25 kg x 5 g 50 lb x 0.01 lb 800 oz x 0.2 oz	50 kg x 10 g 100 lb x 0.02 lb 1600 oz x 0.5 oz	125 kg x 50 g 250 lb x 0.05 lb 4000 oz x 1 oz
Maximum Certified Resolution	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000
Indicator	i-DT61PW								
Column	13.8 in / 350 mm stainless steel						26.8 in / 680 mm stainless steel		
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon-sealed IP67 stainless steel loadcell								
Safe Overload Capacity	150% of maximum capacity								
Stabilization Time	Within 1 second								
Operating Temperature Range	14°F to 104°F / -10°C to 40°C								
Scale Dimensions (A x B x C x D x E x F)	10 × 10 × 2.9 × 1.8 × 23.6 × 15.1 in 254 × 254 × 74 × 45 × 600 × 383 mm			12 × 12 × 3.7 × 2.4 × 23.8 × 17.4 in 305 × 305 × 95 × 60 × 604 × 442 mm			18 × 18 × 4.3 × 2.8 × 36.8 × 24.7 in 457 × 457 × 110 × 70 × 934 × 627 mm		
Shipping Dimensions (L x W x H)	18.9 × 17.5 × 14.3 in 480 × 445 × 363 mm						39.1 × 26.8 × 9.25 in 994 × 680 × 235 mm		
Approx. Net Weight	22.1 lb / 10 kg			26.5 lb / 12 kg			44.1 lb / 20 kg		
Approx. Shipping Weight	26.5 lb / 12 kg			30.9 lb / 14 kg			50.7 lb / 23 kg		

Front Mount Bench Scales

Model	i-D61PW2WQS5	i-D61PW5WQS5	i-D61PW12WQS5	i-D61PW12WQR5	i-D61PW25WQR5	i-D61PW50WQR5	i-D61PW25WQL5	i-D61PW50WQL5	i-D61PW125WQL5
Capacity x Default Readability	2.5 kg x 0.1g 5 lb x 0.0002 lb 80 oz x 0.005 oz	5 kg x 0.2 g 10 lb x 0.0005 lb 160 oz x 0.01 oz	12.5 kg x 0.5 g 25 lb x 0.001 lb 400 oz x 0.02 oz	12.5 kg x 0.5 g 25 lb x 0.001 lb 400 oz x 0.02 oz	25 kg x 1g 50 lb x 0.002 lb 800 oz x 0.05 oz	50 kg x 2 g 100 lb x 0.005 lb 1600 oz x 0.1 oz	25 kg x 1g 50 lb x 0.002 lb 800 oz x 0.05 oz	50 kg x 2 g 100 lb x 0.005 lb 1600 oz x 0.1 oz	125 kg x 5 g 250 lb x 0.01 lb 4000 oz x 0.2 oz
Maximum Displayed Resolution	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000	1: 25,000
Linearity/ Repeatability	±2d								
Capacity x Certified/ Approved Readability	2.5 kg x 0.5 g 5 lb x 0.001 lb 80 oz x 0.02 oz	5 kg x 1 g 10 lb x 0.002 lb 160 oz x 0.05 oz	12.5 kg x 5 g 25 lb x 0.005 lb 400 oz x 0.1 oz	12.5 kg x 5 g 25 lb x 0.005 lb 400 oz x 0.1 oz	25 kg x 5 g 50 lb x 0.01 lb 800 oz x 0.2 oz	50 kg x 10 g 100 lb x 0.02 lb 1600 oz x 0.5 oz	25 kg x 5 g 50 lb x 0.01 lb 800 oz x 0.2 oz	50 kg x 10 g 100 lb x 0.02 lb 1600 oz x 0.5 oz	125 kg x 50 g 250 lb x 0.05 lb 4000 oz x 1 oz
Maximum Certified Resolution	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000	1:5,000
Indicator	i-DT61PW								
Mount	316 stainless steel front-mount bracket with handle								
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon-sealed IP67 stainless steel loadcell								
Safe Overload Capacity	150% of maximum capacity								
Stabilization Time	Within 1 second								
Operating Temperature Range	14°F to 104°F / -10°C to 40°C								
Scale Dimensions (A x B x C x D x E x F)	10 × 10 × 2.9 × 1.8 × 5.1 × 20.8 in 254 × 254 × 74 × 45 × 129 × 529 mm			12 × 12 × 3.7 × 2.4 × 5.1 × 23.1 in 305 × 305 × 95 × 60 × 129 × 588 mm			18 × 18 × 4.3 x 2.8 × 5.1 × 28.9 in 457 × 457 × 110 x 70 × 129 × 734 mm		
Shipping Dimensions (L x W x H)	18.9 × 17.5 × 14.3 in 480 × 445 × 363 mm						39.1 × 26.8 × 9.25 in 994 × 680 × 235 mm		
Approx. Net Weight	22.1 lb / 10 kg			24.3 lb / 11 kg			39.7 lb / 18 kg		
Approx. Shipping Weight	26.5 lb / 12 kg			28.7 lb / 13 kg			46.3 lb / 21 kg		

DEFENDER®6000 *Hybrid Washdown Bench Scales*

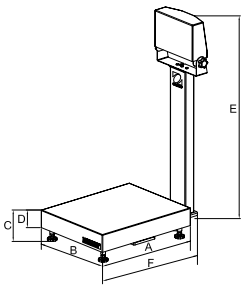
Indicators

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 / 1.8 in high digits	6-digit, 7-segment white LED, 20 mm / 0.8 in 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	6 function + 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, 2nd 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	

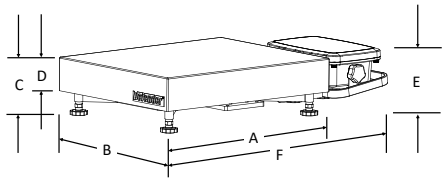
Other Standard Features & Equipment

Menu password protection (i-D61XWE models), customizable print templates, menu and 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

Outline Dimensions



Column Mount Models



Front Mount Models

Compliance

- **Metrology:** NTEP (Indicator: CC 20-043, Platforms: CC 18-077) Class lll, Measurement Canada (Indicator: NoA AM-6159, Platforms: NoA AM-6107)
- **Product Safety:** CAN/CSA C22.2 61010-1; UL61010-1; IEC/EN 61010-1
- **Electromagnetic Compatibility:** FCC Part 15 Class A; Canada ICES-003 Class A; IEC/EN 61326-1 Class B, basic environments
- **Food Safety:** ANSI/NSF 169 (Indicator only)
- **Ingress Protection:** IEC 60529 – IP68 (Indicator), ISO 20653 – IP69K (Indicator), IEC 60529 - IP67 (Load cell)
- **Compliance Marks:** CSA, CE
- **Other:** WEEE, RoHS

Accessories

Wi-Fi/Bluetooth Dongle i-DT61XW..... 30412537
Analog Output Kit i-DT61XW 30424403
2nd RS232/RS485/USB
Device Kit i-DT61XW 30424404
LC Extension Cable, 9 meters 30424409
M16 Gland with Ferrite..... 30379716
Light Tower, 3 Colors, 243mm, IP65
(Requires 30097591) 30424021
Discrete I/O with Relays
(2 In/4 Out) i-DT61XW..... 30097591
Ethernet Kit i-DT61XW 30429666
External Power Bank Holder i-DT61XW
(requires external USB power bank) 30572907
Cable RS232 i-DT61XW..... 80500552
Column Kit, 13.8 in / 35 cm, SST, D52 30424413
Column Kit, 26.8 in / 68 cm, SST, D52..... 30424414
Column Kit, 38.6 in / 98 cm, SST, D52..... 30424415
Front Mounting Kit 316 SS i-DT61PW 30424024
IR communication Kit i-DT61PW..... 30572910
Wheel Kit SS Defender Series..... 30616409
Alibi Memory i-DT61XW..... 80500503

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