







Advanced IP68/IP69K Washdown Indicator

The Defender 6000 Series Extreme Washdown Indicator is specifically designed for food, chemical and pharmaceutical applications including production, processing and packaging. Defender 6000 handles the most demanding applications with a polycarbonate or 316 stainless steel indicator equipped with bright check light bar, knife-proof front panel and EasyConnect[™].

Unique Features:

- Defender 6000 indicator, constructed of polycarbonate or 316 stainless steel, stands up to harsh cleaning in processing and packaging environments with IP68 immersion/IP69K washdown protection.
- Large, bright display offers clear results for fast processing. Color bar offers detailed package weight checking.
- i-DT61PW operates for up to 1,600 hours on one set of batteries for months of use. Battery-powered design eliminates the need for a main connection for increased flexibility.
- With knife-proof numeric touch keypad, i-DT61XWE indicator is suitable for harsh processing environments.

DEFENDER® 6000 Extreme Washdown Indicators

Defender 6000 series 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. Defender 6000 series indicators are IP68 and IP69K rated for wash-down and offer a reliable option for harsh environmental conditions, enhancing food safety and reducing downtime.

Results can be read easily on the 45mm digit height, backlight LCD display or bright, white LED display. 3-color check light bar of i-DT61PW can be used for quick checking of package weights for fast go/no-go alert. Configurable 3-color bar matrix of i-DT61XWE can be used for check or filling application to ensure compliance.



i-DT61PW

- Up to 1,600 hours of continuous operation with backlight off, one set of batteries allows months of use.
- Battery-powered design eliminates the need for a mains connection.
- Tool-free design allows for easy battery replacement with no downtime waiting for charging.
- 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-DT61XWE

- 3mm thickness polycarbonate touch keypad, dedicated target and numeric keys ensures quick use and operation in harsh environments.
- Multiple connectivity capabilities include built-in RS232 and USB host.
- Optional 2nd RS232/RS485/USB Device, Analog Output, WiFi/ Bluetooth, Ethernet and Discrete I/O with relay.
- Touchless sensor allows for hands-free operation, reducing contamination risk.
- Optional external battery housing kit, allowing indicator to be powered with power bank in wet harsh environment.



Optional External Power Bank Holder for i-D61XWE Models

DEFENDER® 6000 Extreme Washdown Indicators

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.



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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.

Additional Features

Dynamic Weighing and Display Hold



Take an average of weights for an item over a period of time to account or 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-DT61XW:

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.

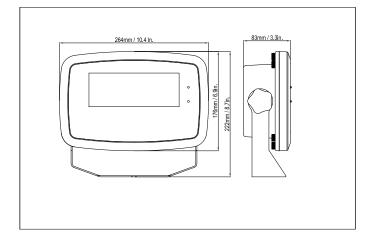
• Library and User Management

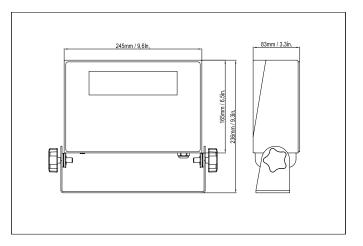
Up to 300 library items(stores part number, tare weights, APWs, under/over limits, set points or reference weight) can be shared within different weighing modes. 100 user IDs can be stored for secure user access and traceability.

Dedicated target key for quick set-up of package over/under weights, speeding up line changeovers. Fully customizable templates allow for easy data printing. When connecting to OHAUS EasyConnect[™] bases, allows instant connection and use of the scale without additional confguration.

Menu password protection, key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, low battery indicator(i-DT61PW), auto shut-off, auto tare.

Outline Dimensions





DEFENDER® 6000 Extreme Washdown 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		
A/D Conversion Rate	80 Hz		
Capacity Selections	Up to 99,999 g/kg/lb/t	999,999 kg/lb with decimal located to five places	
Maximum Displayed Resolution	1:75	5,000	
Maximum Approved Resolution	1:10,000 (NTEP: III, IIIL, Measurement Canada: III, IIIHD) @ 2 mV/V	1:10,000 (NTEP: III, IIIL, Measurement Canada: III, IIIHD) @ 1.6 mV/V	
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 keys + 12 numeric capacitive keypad	
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 lb or 1 kg to capacity		
Internal Resolution	1,000,000 counts per mV/V	1,137,000 counts per mV/V	
Digital Filtering/Type	Averaging		
Load Cell Excitation Voltage	3.3VDC 5VDC		
Load Cell Drive	Up to 4 x 350 ohm load cells	Up to 8 x 350 ohm load cells	
Load Cell Input Sensitivity	Up to 3 mV/V		
Stabilization Time	Within 1.5 seconds	Within 1 second	
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 1600 hours continuous use with backlight off	Depends on the capacity of power bank used (Up to 55 hours with 20000mAh power bank)	
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	
Shipping Dimensions	11.8 x 10.4 x 5.3 in / 300 x 265 x 135 mm		
Product Dimensions (With Bracket)	10.4 x 8.9 x 3.3 in / 265 x 225 x 85 mm	nm 11.4 x 9.3 x 3.1 in / 290 x 235 x 80 mm	
Approx. Net Weight	6.0 lb / 2.7 kg	7.0 lb / 3.2 kg	
Approx. Shipping Weight	ing Weight 8.4 lb / 3.8 kg 7.7 lb / 3.5 kg		
Operating Temperature Range	14 °F to 104 °F / -10 °C to 40 °C		

Compliance

- Metrology: NTEP: CC 20-043 Class III, IIIL, Measurement Canada: AM-6159 Class III, IIIHD
- 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
- Ingress Protection: IEC 60529 IP68, ISO 20653 IP69K
- Compliance Marks: CSA, CE
- Other: WEEE, RoHS

Accessories

Wi-Fi/Bluetooth Dongle i-DT61XW	
Analog Output kit i-DT61XW	
2 nd RS232/RS485/USB Device kit i-DT61XW	
LC Extension Cable, 9 meters.	
M16 Gland with Ferrite	
Light Tower, 3 Colors, 243mm, IP65 (Requires 30097591)	
Discrete I/O with Relay (2 In/4 Out) i-DT61XW	
Ethernet kit i-DT61XW	
External Power Bank Holder i-DT61XW	
(requires external USB power bank)	
Cable RS232 i-DT61XW	
IR communication kit i-DT61PW	
Alibi Memory i-DT61XW	

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

