OHAUS®

T71XW Indicator

T71P Indicator

Advanced Multifunctional Indicators for Demanding Industrial Applications

The OHAUS 7000 series of multifunctional indicators is ideal for a range of applications in production, packaging, warehouse, inventory, shipping and receiving areas. Ideal for bench and floor scale use, the 7000 series is available in both a dry-use, ABS plastic housing as well as a NEMA4X/IP66 water resistant stainless steel housing. Both housings feature large, bright dual line backlit displays, raised tactile keys, battery-powered use (optional on T71XW), and are easy set-up and use. The 7000 series is the solution to your weighing indicator applications that require multiple functions, rugged construction, comprehensive yet intuitive software and multiple connectivity options.

Standard Features Include:

- T71P features a high-impact, durable ABS plastic housing with reversible rear cover for either wall, column, scale front, or table-top mounting
- T71XW features an NEMA 4X/IP66 water resistant stainless steel housing with integral faceplate supports for easy servicing.
- 50,000d maximum displayed weighing resolution with temporary display of 10x readability in weighing mode using quick key press
- Quick display of results using large dual line LCD with high-contrast white backlight
- Easy to operate with positive feedback 5-function key and alpha-numeric membrane keypad
- Weighs in one or more units: kg, g, lb, oz, lb:oz (decimal), tonnes and user-definable custom unit
- Multiple weighing modes including Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, Display Hold, and Accumulation
- 255 item Library function
- T71XW includes an internal universal switching power supply with hardwired line cord, T71P has the same internal power supply with universal line cord or can be powered using 6 "C" batteries (80-hour battery life) – Optional NiMH internal rechargeable power pack available for both indicators
- Includes RS232 interface with GMP/GLP data output including date and time, and external analog base input
- Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS485/422

7000 Series *Advanced Indicators*

7000 Series Indicators Offer Multiple Features and Easy Configuration:

To meet different operational needs, the 7000 Series includes a suite of configurable software:

• Counting mode for packaging and inventory control, enabling counting into a container or out of a container for bulk operations. Supports a maximum counting resolution to 1:500,000 (minimum APW equal to 0.1d), selectable auto-optimization of average piece weight (APW). APW data can be displayed at any time using a quick key press.

• Percent Weighing mode for formulation and mixing applications, with display of reference weight with quick key press.

• Dynamic/Animal Weighing with selectable averaging times from 0-60 seconds.

• Checkweighing function for count and weight checking, with display of results using LCD display and red/yellow/green LEDs. Audible beeper can be configured to prompt when weight is within range, under, over, or under or over range. Target values can be displayed at any time using a quick key press.

• Display Hold mode for weighing large packages, holds last stable weight on display until cleared manually or automatically

• The 7000 Series weighs in one or more user-selectable units: kg, g, lb, oz, lb:oz (decimal), tonnes and user-definable custom unit

• Supports GMP/GLP data output with date, time user ID, project ID and scale ID. The Defender 7000 features selectable print options for data and print format

• To limit operator access to functions, the Defender 7000 offers both software lockouts for menu items as well as individual key functions.

Options and Accessories

Interface Options	**OHAUS Number**
AC Relay Kit, T71P/T71XW	80500720
DC Relay Kit, T71P/T71XW	80500727
RS485/422 Interface Kit, T71P/T71XW	80500731
RS232 Interface Kit, T71P/T71XW	80500733
Foot Switch	71173378

Power Options
Rechargeable Battery Kit, T71P/T71XW 80500729

Mounting Accessories	
Wall Mount Kit, T71P	72200227
Wall Mount Kit, T71XW	80500735
Base Mount Kit, T71P	80500722
Column Mount Kit, 35cm, painted, T71	80500723
Column Mount Kit, 68cm, painted, T71	80500724
Column Mount Kit, 35cm, stainless steel, T71	80500725

Mounting Accessories (continued)	**OHAUS Number**

Column Mount Kit, 68cm, stainless steel, T71 80500726
Compatible with all existing columns for Champs-CD/CW11/CD3X/CKW

Other Accessories	**OHAUS Number**
Compact Dot Matrix Impact Printer	80252042
Compact Dot Matrix Impact Printer	80252042
Compact Thermal Printer	80251992
OHAUS Collect Software	80500746
TAL Software WinWedge	SW12W
Paper for Printer, 80252042 (1 roll)	80251932
Ribbon for Printer, 80252042	80251933
RS232 Cable & Adapter, 80252042 Printer to T71XW	80252574
RS232 Cable, PC 9 Pin to T71XW	80500552
RS232 Cable, PC 25-pin to T71XW	80500553
RS232 Cable & Adapter, 80252042 Printer to T71P	80252571
RS232 Cable, PC 9-pin to T71	80500525
RS232 Cable, PC 25-pin to T71P	80500524

Outline Dimensions

T51XW Indicator | *T51P Indicator*

315 mm / 12.4 in
262 mm / 10.3 in
76 mm / 3.0 in
149 mm / 5.86 in
212 mm / 8.3 in

313 mm / 12.4 in
260 mm / 10.2 in
71 mm / 2.8 in
168 mm / 6.6 in
224 mm / 8.8 in

Standard Features:

Stainless Steel 304 NEMA 4X/IP66 Enclosure
Indoor/outdoor protection against falling dirt, rain, sleet, snow, windblown dust, splashing and corrosion
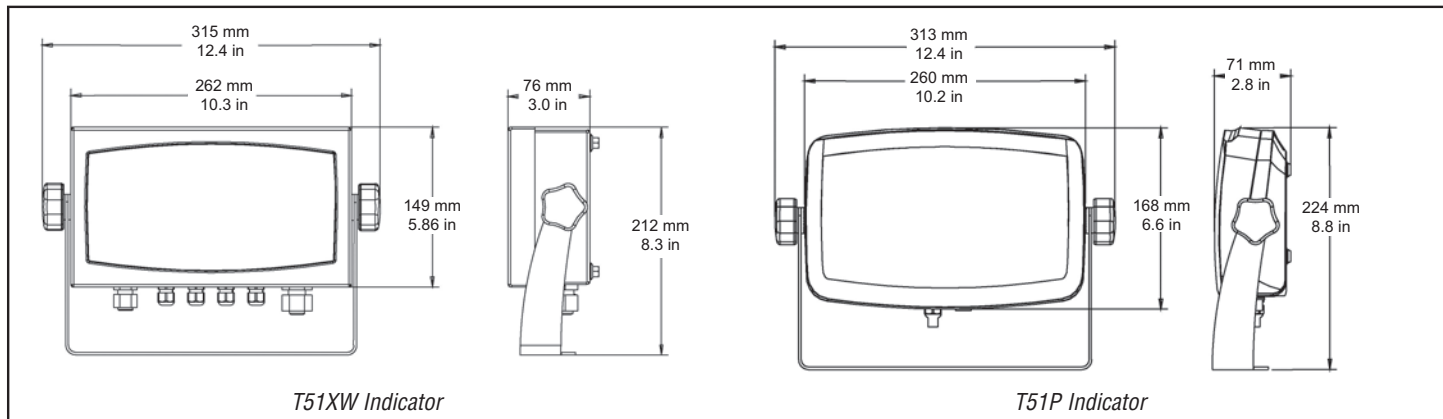
Optional NiMH Battery
Allows for use in environments where an electrical outlet may not be readily available

Internal Slot for Capacity Label
Protects label from the effects of moisture and external environments

3-Color LED Checkweigh Indication
with configurable beeper alert

High-Visibility Dual Line LCD Display
with bright white LED backlight. Fast display stable weight within 2 seconds

Included Table/Wall Mount Bracket
With large ergonomic adjustable knobs to maximize viewing angles

Hinged Front Cover
Only four sealing screws secure the housing for ease of servicing, while still ensuring IP66 seal integrity

One-Key, Multiple Mode Selection
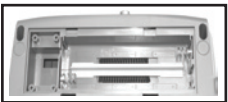Counting, Dynamic Weighing, Display Hold, Percent Weighing and Checkweighing

Universal Switching Power Supply
Automatically adapts to different voltages from 100-240 VAC; plug anywhere, anytime

Stay Connected
Built in RS232 bi-directional interface and built-in external input, optional RS422/485, optional second RS232 and optional AC or DC relay

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Simple Plug-In Battery Installation
Use six C- alkaline batteries or the optional NiMH battery

High-Visibility Dual Line LCD Display
with bright white LED backlight and fast display stable weight within 2 seconds

Internal Slot for Capacity Label
Protects label from the effects of moisture and external environments

3-Color LED Checkweigh Indication
with configurable beeper alert

Reversible Rear Housing
Cables can exit above (table or front scale mounting) or below (wall or bench scale mounting) for convenient mounting. Front scale mounting with available accessory. Internal structural ribs provide strength and minimize flexing.

Included Table/Wall Mount Bracket
With large ergonomic adjustable knobs to maximize viewing angles. A ratchet-type angle adjustment with metal inserts ensure that viewing angles are set securely, and lasts a long time even with frequent adjustments
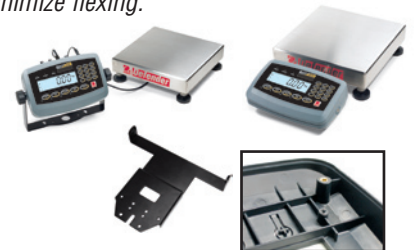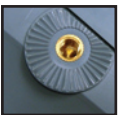
Universal Switching Power Supply
100-240 VAC with AC line cord; no need for an external AC adapter!
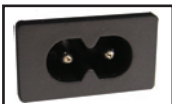
Stay Connected
Built in RS232 bi-directional interface and external input, optional RS485/422, optional second RS232 and optional AC or DC relay

One-Key, Multiple Mode Selection
Counting, Dynamic Weighing, Display Hold, Percent Weighing and Checkweighing

7000 Series *Advanced Indicators*

Specifications

Indicator Models	T71P	T71XW
Capacity Range	1 to 999,950 kg/lb	
Maximum Displayed Weighing Resolution	1:50,000d	
Maximum Displayed Counting Resolution	1:500,000d	
Minimum Average Piece Weight (APW)	0.1d	
Weighing Units	kg, lb, g, oz, lb:oz, tonnes, custom	
Modes	Static Weighing, Dynamic Weighing, Counting, Checkweighing, Percent Weighing, Display Hold	
Housing	ABS plastic with internal reinforcing ribs	304 stainless steel enclosure
Display	6-digit, 7-segment LCD, 25mm/1 inch high primary digits, dual line, with high-contrast white LED backlight	
Checkweigh Indication	3-color checkweigh LED with configurable beeper signal	
Keypad	Positive feedback membrane keys, 5 function keys and alpha-numeric keypad	
Ingress Protection	—	NEMA 4X / IP66
Load Cell Excitation Voltage	5V DC	
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	
Auto-Zero Tracking	Off, 0.5, 1 or 3d	
Zeroing Range	2% or 100% of capacity	
Calibration	Span: 1kg or 1lb to 100% of capacity / Linearity: 3 or 5 point	
Interface	Built-in RS232 and External Tare Input included Optional 2nd RS232, RS422/485, AC Relay or DC relay available	
Overall Dimensions (inc. bracket) (W x D x H)	10.2 x 2.7 x 8.8 in / 260 x 71 x 224 mm	10.3 x 3 x 8.7 in / 262 x 76 x 212 mm
Enclosure Dimensions (W x D x H)	10.2 x 2.7 x 6.6 in / 260 x 71 x 168 mm	10.3 x 3 x 5.8 in / 262 x 76 x 149 mm
Net Weight	3.3 lb / 1.5 kg	7.7 lb / 3.5 kg
Shipping Weight	5.0 lb / 2.3 kg	9.5 lb / 4.3 kg
Shipping Dimensions (W x D x H)	13 x 9.5 x 7 in / 330 x 240 x 180 mm	
Operating Temperature Range	14°F to 104°F / -10°C to 40°C	
Relative Humidity Range	Maximum 80% up to 88°F/31°C, decreasing linearly to 50% at 104°F/40°C	
Power	100-240 VAC / 50-60 Hz Internal universal power supply, line cord 6 'C' cell batteries (not supplied) with 80 hour life Opt. Int. rechargeable NiMH battery (10-hr. typical operation)	100-240 VAC / 50-60 Hz Internal universal power supply, hardwire cord Opt. Int. rechargeable NiMH battery (10-hr. typical operation)

Features

T71P: ABS plastic housing with internal rib reinforcements, reversible rear cover, backlit LCD weight display, checkweighing indication (green, yellow, red), membrane keypad with raised tactile keys, built-in bi-directional RS232 with manual/continuous/interval printing, external tare input, hardware configuration lockout switch, internal switching power supply with line cord and battery power using 6 "C" cell batteries.

T71XW: Stainless steel water resistant NEMA 4X / IP66 housing, integral faceplate supports for easy servicing, backlit LCD weight display, checkweighing indication (green, yellow, red), membrane keypad with raised tactile keys, built-in bi-directional RS232 with manual/continuous/interval printing, external tare input, hardware configuration lockout switch, internal switching power supply with hardwired cord.

Options and Accessories

Internal rechargeable NiMH battery pack, 2nd RS232 interface, RS485/422 interface, AC Relay or DC Relay, column mount kits, scale front mount bracket, interface cables, printer.

Other Features

Zero point calibration, calibration test, span or linear calibration, selectable auto-zero tracking range, selectable stability range, selectable averaging level, selectable LCD backlight, selectable auto shutoff, retain zero weight data after power-off, Geo gravity adjustment, selectable key beep, key function lock, menu lock, selectable power-on and calibration unit, battery status display, display of gross/net weight, indication of stability, center of zero, over- and underweight, overload and underload conditions. Configuration menus for PRINT1, PRINT2, COM1, COM2, and I/O.

Compliance

- **Safety and EMC:** $_cUL_{us}$ 2005/95/EC low voltage directive: EN60950-1:2001, FCC Part 15 Class A 2004/108/EC
  EMC directive: EN61326-1:1997; +A1:1998; +A2:2001; + A3>2003
- **Other:** Compliant to Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)
- **Quality:** Ohaus quality management system registered to ISO 9001:2000