



H-4621
Instruction Manual
U.S. AND METRIC SUSPENSION
SCALES

Manufactured by:

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1. Introduction

HIGH ACCURACY, COMPACT DIGITAL HANGING SCALE FOR ALL LOW CAPACITY WEIGHING NEEDS. Humboldt's advanced design makes this remarkable hanging scale the first choice over other electronic units. It's value packed with the industry's most wanted features. Our ultra-high resolution, 12-bit A/D converter provides highest accuracy available $\pm 0.1\%$ of applied load.

Our unique design flexibility lets you choose the model and weighing capacity you need – ranging from 25 to 500 lbs / 12.5 to 250 kg. Keypad setup and digital calibration enhance ease of operation.

All electronics are shock mounted in a weatherproof ABS plastic case. This assures maximum protection against moisture, dust and rough usage. High visibility $\frac{1}{2}$ " / 12 mm LCD digital readout provides easy reading of weights; membrane push button switches allow simple trouble-free operation.

Power is supplied by one 9-volt alkaline battery.

- Peak hold
- Standard 9V battery
- Ultra long battery life
- Weighs only 1.6 lbs
- Stainless steel hooks
- Size of a cell phone

2. Specifications

Capacity:	25, 50, 100, 250, 500 lbs 12, 25, 50, 125, 250 kg.
Graduation:	0.01, 0.02, 0.05, 0.1, 0.2, 0.5 and 1
Power:	9V Alkaline
Size:	3.75W x 2D x 6H inches 94 x 50 x 150 mm
Display:	0.5 inch/12 mm L.C.D.
Temperature Range:	-4°F to +140°F -20°C to +60°C
Controls:	On/Off, Zero and lb/kg

2.1 Control:

General:	Zero, lb/kg, On/Off
Display:	4 digit LCD

2.2 Electrical

Batteries:	1 (9-volt) size disposal alkaline battery
Resolution:	12 bits A/D delivers over 4,000 internal counts
Auto-Zero:	Automatically zeros off errors of zero-load
Battery Life:	Over 125 hours of continuous use with an alkaline battery.
Low Battery Indication:	Flashes “bat” when battery is running low; Turns off if battery power is low enough to affect reliability.

2.3 Performance

Accuracy: $\pm 0.1\%$ of applied load \pm display graduation, whichever is greater.

2.4 Environmental

Humidity:	10 to 95% Non-Condensing
Temperature:	Operating: -10C to +40C to +75C / -40F to 170F

2.5 Physical

Dimensions:	Height: 3.3” (6.2” with hooks) / 8.4 cm (15.7 cm with hooks)
Width:	4.4” / 11.2 cm
Depth:	2.5” / 6.4 cm
Weight:	1.1 lbs / 0.5 kgs

3. Operations

3.1 On/Off

Press this button to turn the crane scale on. The unit tests itself; when these tests have completed successfully, the system begins weighing. Press this button again to turn the unit off.

3.2 Zero

Tells the crane scale to display a zero weight. If you press ZERO with weight on the pad, that weight becomes the zero condition for the scale. When this weight is removed, a negative shows until the system is zeroed again.

Note: If this negative number is too large to fit on the display, the scale will display “zero” until you press ZERO.

The scale contains a feature called Auto Zero Tracking (AZT), which corrects for slight zero changes during normal operation. If small weights are added slowly, the crane scale could zero them off.

3.3 Lb/Kg

This button toggles the display between pounds and kilograms. After pressing this button the unit will display: 1) “Lbs”, if you have now switched to display in pounds. 2) “I-gs (for Kgs), if you have now switched to display in kilograms.

3.4 Peak Hold Mode

To get into peak hold mode press the Lb/Kg and Zero keys together (Calibration blocking shunt must be in place). The unit will momentarily display “Peak”. In this mode the unit will display only the highest force applied to the pad – until you press the Zero key. To exit peak hold mode press the Lb/Kg and Zero keys together again. The unit will momentarily display “nor” to indicate you have switched back to normal operating mode.

Note: The unit will always turn on in “normal” operating mode.

3.5 Changing the Battery

Turn the power off. Slide the battery hatch down. Next, remove the battery from the case and unsnap the used battery. Snap in the new battery and replace the battery in the case. Replace the cover.

3.6 Error Messages

Over: The crane scale is over capacity. Reduce the load on the pad.

Zero: Display error, the crane scale is unable to display the negative number completely. Press the ZERO button to re-zero the scale thereby solving the problem. NOTE: Every time you press ZERO the scale will momentarily “zero”.

Batt: Low battery, the unit requires a new battery. It will shut-off if this message is ignored for too long.

4. Warranty

Humboldt Mfg. Co. warrants its products to be free from defects in material or workmanship. The exclusive remedy for this warranty is Humboldt Mfg. Co., factory replacement of any part or parts of such product, for the warranty of this product please refer to Humboldt Mfg. Co. catalog on Terms and Conditions of Sale. The purchaser is responsible for the transportation charges. Humboldt Mfg. Co. shall not be responsible under this warranty if the goods have been improperly maintained, installed, operated or the goods have been altered or modified so as to adversely affect the operation, use performance or durability or so as to change their intended use. The Humboldt Mfg. Co. liability under the warranty contained in this clause is limited to the repair or replacement of defective goods and making good, defective workmanship.

CAUTION: Keep hands, clothing and other objects away from moving parts when the machine is in operation.

5. Drawing



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