Scales & A1-10 Indicator

Specification

Product Description

The A1-Indicator is a high quality device suitable for use in an industrial, logistical and agricultural environment. The digital display screen allows these scales to work easily and quickly. Used in conjunction with scales, they allow you to easily and accurately weigh items.

The scales and indicators have precise graduations of just 0.5kg, so they're also suitable for weighing smaller items if you need to items.

Technical Information

Voltage: DC 5V; up to 4, 350Ω load cells
External power supply: 230V (115V) AC.
Internal power supply: Rechargeable 6V DC battery
Operating temperature: 0 to 40ºC
Storage temperature:-25 to 55ºC
Relative humidity: ≤ 85%
Baud rate continuous ASCII data output
RS-232C interface, optional RS-485 interface 1200/2400/4800/9600

Monster Guarantee

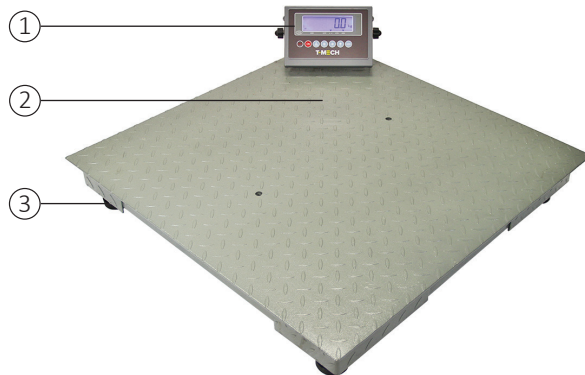If you wish to return a product in perfect working order, we provide a 14 day returns policy as long as the item is unopened and in a resalable condition. A 12 month warranty applies to all of our electrical products, we will cover labour, parts and delivery charges. Our policy is to try and fix the item before arranging an exchange or refund. For full terms and conditions contact our Support department via the details on the Contact page.

Specification

Product Features

Platform Scales

1) A1-10 Indicator
2) Weighing Platform
3) Rubber Non-Slip Feet

Beam Scales

1) Beam Scales
2) A1-10 Indicator
3) Rubber Non-Slip Feet

Specification

Keypad Functions

1) OFF Button:	Turns display off
2) ON Button:	Turns display on
3) Accumulation Function:	Operates manual accumulation function
4) Function Button:	Switches between normal function & configuration mode
5) Right Adjust:	Moves adjustable (flashing) value on display during configuration
6) Up adjust:	Adjusts resolution on display screen, changes parameter value in configuration or sets present tare value.
7) Zero:	Sets display to zero, sets zero point or allows user to enter tare value

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Display Status

1) x10:	Display is set to a high resolution
2) LO/HI:	The weight is lower/higher than the low point/ high point threshold set by user
3) AUTO:	Automatic accumulation function is active
4) Level symbol:	Weight is stable on the scales
5) →T←:	Tare value included, display is showing net weight
6) →0←:	Scale is set to zero

Other Indicators Include:

AC:	Charging cable is plugged into display
Empty Battery Symbol:	Battery less than 30%

User Guide

Calibration Method

Step	Key Controls	Display Message
1	Turn OFF keypad Press & hold [→0←] Then press [ON] once Release [→0←]	Display will begin to self test from [000000] to [999999]
2	Press function key [*] Then press [→] Press the function key again [*]	[CAL SP] [CAL 00] [------] to [3000.0kg]
3	Press [→] to choose a value then use the [↑] to set the calibration weight. E.g. If your set calibration weight is 50kg, change the display to show [00050.0kg]	
4	While your set calibration weight display is flashing, put your calibration weight on the scales.	
5	**Please Note:** The screen should display the arrow above the Level Indicator. Use below image for reference. Press function key [*]	Display will show [------] as it sets the calibrated weight. It should then show the weight on the display.
6	Turn OFF the scales and turn ON again to resume normal operation	
7	**Please Note:** If you think your calibration has failed, please refer to Calibration Parameter Settings on the next page before attempting the Calibration Method again.	

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Calibration Parameter Settings

Follow these instructions to calibrate your scales. If you face any issues contact our Support department via the details on the Contact page, who will be happy to guide you through the calibration process.

Step	Key Controls	Display Message
1	Turn OFF keypad Press & hold [→0←] Then press [ON] once Release [→0←]	Display will begin to self test from [000000] to [999999]
2	Press function key [*] twice Then press [→] Use [↑] to cycle through the options until [d 0.5kg] is shown. **Not** 0.50 or 0.05.	Display will show d and a number e.g. [d 0.5]
3	Press function key [*] to confirm	
4	Press [→] to choose a value then use the [↑] to change the number to the maximum calibration weight of 03000.0kg. i. Press the function key [*] to confirm	Display will show [000000] then enter your calibration weight

User Guide

Calibration Parameter Settings

Step	Key Controls	Display Message
5	After confirming the maximum weight: Press function key [*] Press function key [*] Press function key [*]	[FLT 00] [AUTP 10] [Adr 10] [b 2400]
6	Press function key [*] Press [→] to choose a value then use the [↑] to change the number to set the Low Weight	[0.5] kg
7	Press function key [*] Press [→] to choose a value then use the [↑] to change the number to set the High Weight	[3000] kg
8	Press function key [*] Press function key [*] to confirm these settings	[Led 0]
9	Please refer back to Step 2 of the Calibration Method to calibrate the scales.	

User Guide

Zero & Tare Modes

Zero mode

When the weight is stable, press the [→0←] key for two seconds to set the zero point and to zero the display. The display will then show [→0←] when this is turned on.

Tare mode

Digital tare- Press the [→] key. Set the tare value using the [→] and [↑] keys and press the [→0←] key to confirm. The input data will show the tare value and the tare status will show on the display screen.

Acquire tare- When the tare status is not showing on the screen and the weight is stable, press the [→0←] key to acquire the tare and switch to net mode. The tare status will then show on the screen.

Remove tare- When the tare status is on, press the [→0←] key to switch to gross mode and remove the tare. The tare status will not show on the screen.

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Parameter Configuration

Accumulation menu

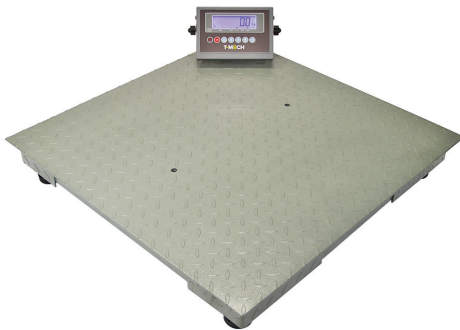| Step	Key controls	Display message	Function
1	Press function key [*]	[n]	This will show the amount of times the weight can be accumulated.
2	Press function key [*] Press [→] to choose a value then use the [↑] to select. Press function key [*]	[AUt 0]	Manual/Automatic Accumulation menu AUt=0 Manual Accumulation AUt=1 Automatic Accumulation and print when weight is added. AUTO will show on the display. AUt=2 Automatically memorize the displayed value when weight is added. Accumulates and prints when reading is stable and drops below 20d.

Manual weight accumulation
When the weight is stable press the accumulation key to accumulate the current weight to the total weight. The total number of accumulations will be displayed for 1.5 seconds.

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Other Functions

1) Clear memory- press the [→0←] the [*] button to clear the memory. If the memory has previously been cleared the display will show [n   0] followed by zero weight when the function button is pressed.

2) Set the data- when adjusting parameters press the [→] key to move the adjustable digit and press the [↑] key to change the value.

3) Battery capacity- when the display is powered ON/OFF the battery capacity will be displayed for 1.5 seconds. If the capacity runs down to less than 20% the display will start to flash, switch the machine off and connect to the external power supply. When the battery is less than 10% the display will automatically switch off. Ensure the battery is never fully discharged, this can cause damage to the battery and prevent it from working correctly.
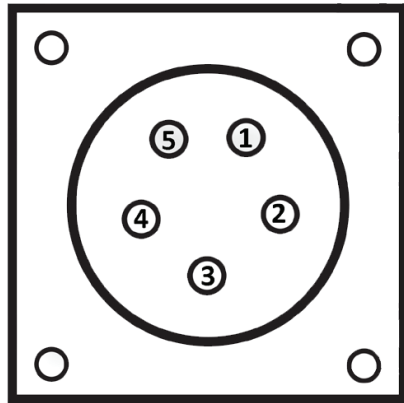
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Connection Wiring Diagram

The instructions below inform on how to wire the scales correctly to either a 5 pin or 9 pin DB-9 serial connection. The cable provided will already be wired, however should the cable need rewiring please consult this page.
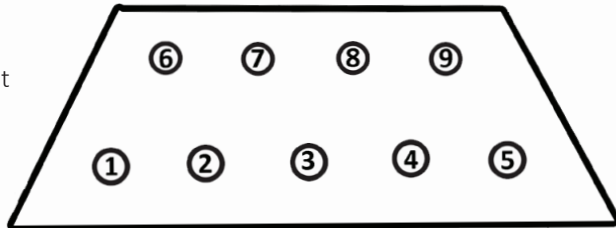
5 pin plug
1) Positive current
2) Positive signal
3) Negative signal
4) Negative current
5) Ground/Earth

DB-9 serial connection
1) Positive current
3) Ground/Earth
5) Negative current
7) Positive signal
8) Negative signal

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Printer Connection

If you require a print out from a mini printer or receipt printer please follow the instructions below.

1) Connect the display to the mini printer via a serial cable. (Before connecting to the printer ensure that the communication address is set as Adr=01 and baud rate is set as b=2400, see configuration.)

2) Print the current weight- ensure that the weighing data is less than 20d and the display is stable. Press the accumulation button and the reading will be printed.

3) Accumulated print- when the display is in weighing mode press the function button, then press the accumulation button to print out the accumulated figure.

4) Automatic accumulation print- when the display is set to automatically accumulate it will also automatically print the readings when the weight is stable and less than 20d. The second print will automatically begin when the weighing data is back to 20d and more weight is loaded.

Here is an example of a print reading:

Normal print

NO:1 (serial number)
Gross: 1234kg (gross weight)
Tare: 1000kg (tare weight)
Net: 234kg (net weight)

Accumulation print

NO: 9 (number of accumulation)
W: 8765kg (accumulated weight)

Safety Advice

Safe Working Practice

Please read through the safe working practice to ensure prevention of injury or damage to the device.

Do not use the machine if the adaptor wire is frayed or damaged.

To charge the battery use the included charging cable. Once the battery is fully charged unplug the cable, as prolonged operation from the mains will damage the battery.

When the device is not in use ensure that the power plug is removed from the socket. This will prevent damage to the appliance through power surges.

Do not operate or store the digital display near heat sources or in hot environments. The operating temperature for the scales and display is between -10ºC and 50ºC with a maximum humidity of 85%. Using the scales outside of these temperatures may lead to damage.

Do not use the scales in dusty areas as this can lead to damage in the display unit.

Do not overload the scales. This will cause damage to the appliance and will prevent it from working correctly.

Ensure the display is kept away from water sources as it is not waterproof.

Both the scales and the display should be fully sealed when in use. Do not attempt to remove or adjust any parts without expert attention.

Ensure the display and wires are kept clear from heavy objects as this will cause damage and prevent them from working.

Contact Us

Sales Department

For information regarding this device or other products from our Monster divisions please use the following details below.

Tel: 01347 878888
Email: hello@monstershop.co.uk

Support Department

For queries about this device, warranty, returns or reporting faults please use the following details below.

Tel: 01347 878887
Email: help@monstershop.co.uk

Website

To view our product range and fantastic offers in the Monster divisions please visit our website

www.monstershop.co.uk

Address

To visit our office Monster House and view our products, send postal correspondence or return items our address is provided below.

Monster House, Alan Farnaby Way, Sheriff Hutton Industrial Estate, Sheriff Hutton, York YO60 6PG

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