

10274/10276

T-Mech Beam Scales and A1-10 Indicator



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Specification

Product Description

The T-Mech Beam Scales are a high quality weighing device suitable for use in an industrial, logistical and agricultural environment. The digital display screen allows these scales to work easily and quickly whilst the flexible positioning of the beams means you can easily weigh long items that would not fit on other scales. With the ability to weigh up to 3000kg/3 tonnes using a variety of functions, these sturdy scales are an essential appliance for accurately weighing heavy items.

Please refer to and read Safety Advice, Safe Working Practice to ensure prevention of injury or damage to the machine before starting.

Item Contents

- 2 x T-Mech 1200mm Beam Scales
- 4 x support feet
- 1 x A1-10 digital display indicator
- 1 x Mounting bracket components
- 1 x Splitter cable to connect scales to the display
- 1 x Charging cable with 13 amp 3 pin plug.

Product Specifics

Beams;

Dimensions: 120cm W x 12cm D x 6cm H (8cm with feet attached)

Weight: 22 KG

Capacity: 3000kg / 3 tonnes

Measurements: 0.5kg increments

Digital display;

Dimensions: 27.5cm W x 16cm D x 12cm H

Weight: 1.3 KG

Display: High resolution 25mm LED display with 6 active digits

Cable connection: 6 wires

Material: Plastic

Specification

Technical Information

Accuracy Class: III (for retail, industrial, and agricultural use)

Load Cell Excitation Voltage: $U_{exc} = 5V$

Maximum number of Load Cells: 4 x 350 Ω load cells / 8 x 700 Ω load cells

Serial Interface: RS232 interface with continuous data output with optional RS485 interface. Baud rate 1200, 2400, 4800, 9600

External Power Supply: 100-240V 50/60Hz AC

Internal Power Supply: Rechargeable 6V/2.8AH battery

Full Charge Battery Life: 20 hours

Full Charge Battery Recharge Time: 12 hours

Operating Temperature: $-10^{\circ}C$ to $40^{\circ}C$

Storage Temperature: $-25^{\circ}C$ to $55^{\circ}C$

Humidity Range: 10%- 85% non-condensing

Monster Guarantee

If you wish to return a product in perfect working order, we provide a 30 day returns policy as long as the item is unopened and in a resalable condition.

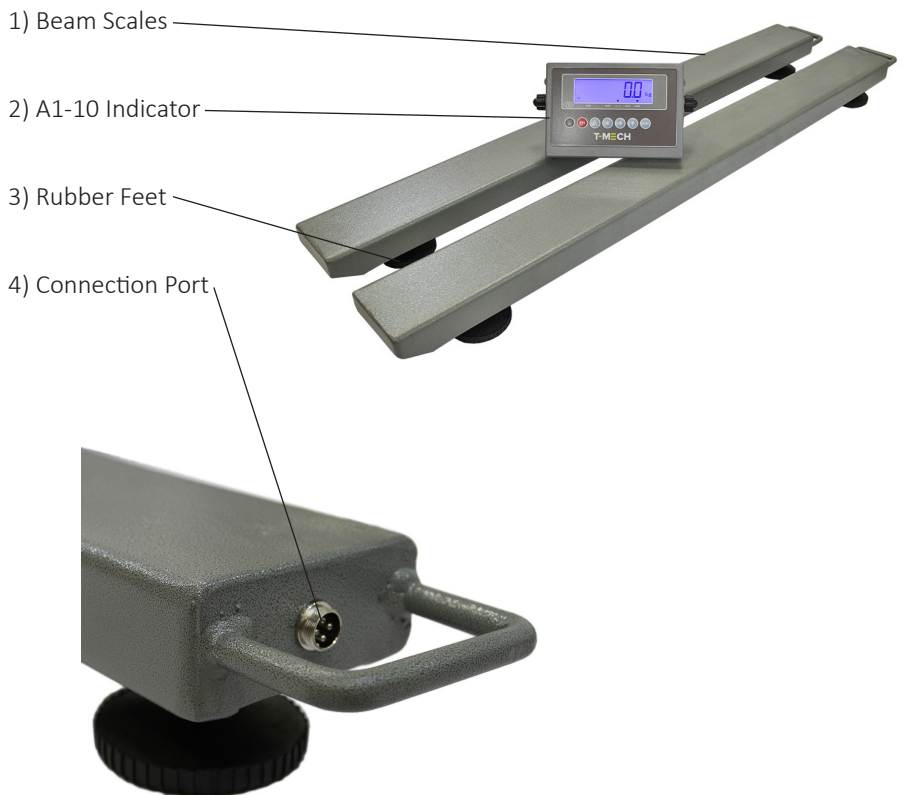
A 12 month warranty applies to all of our electrical products; we will cover the cost of labour and parts. Our policy is to try and repair the item before arranging an exchange or refund.

If for any reason a part is missing please get in touch with us within 7 days on receipt of your order. You can contact our friendly and helpful Customer Support Team via email or call. For full terms and conditions contact our Support Department via the details on the Contact Us page.

Monster Group UK Limited's liability will be limited to the commercial value of the product only.

Specification

Product Features



User Guide

Keypad Functions



- 1) **ON/OFF**: Hold for 2 seconds to switch on or off.
- 2) **MANUAL UMULATION**: Allows weighing of multiple items.
- 3) **STAR**: Toggle between functions.
- 4) **RIGHT**: Move into menus and functions and move between selected digits.
- 5) **UP**: Move between settings and raise selected digit.
- 6) **ZERO (0) / TARE Mode (T)**: Clear settings and use Tare Mode.


User Guide

Display Status



- 1) AUTO: Automatic Accumulation Setting
- 2) Stable Weight Indicator
- 3) Tare Mode active
- 4) Scale is set to Zero.

LCD Symbols:

Symbol	Description
888888	6 digit display
kg	Weight unit in kilograms (lb and oz also available)
X10	Weight displayed in x10 of decimal point
~	AC Adaptor is connected
	Low Battery (10% or less)
SET	In Configuration Mode
CAL	In Calibration Mode
LO	Indicates when weight is between set point A and B
OK	Indicates when weight is between set point B and C
HI	Indicates when weight is between set point C and D

User Guide

Basic Functions

Switching ON and OFF:

- 1) Press ON/OFF and hold for 2 seconds to switch on the indicator. It will display the software version and begin self-tests.
- 2) To switch off, press ON/OFF and hold for 2 seconds.

NOTE: If the software version displayed when turning on the Indicator is not UEr50.0, the system is in calibration and configuration mode. See 'Enabling Calibration and Configuration Mode'.

Calibrating the Indicator:

NOTE: The minimum weight required to calibrate the indicator is 150 KG.

- 1) Ensure there is no weight on the scales.
- 2) Press STAR > Press RIGHT > Press STAR.
- 3) The LED screen should now display [-----].
- 4) Now place the weights on the scales (**min. 150KG**).
- 5) Allow the **Stable Weight Indicator** to appear.
- 6) Use RIGHT and UP to input the weight, then press STAR.
- 7) The LED screen will display the correct weight; it is now calibrated.
- 8) Adding more weight to the scales will now show on the LED display.

Zeroing:

- 1) The display can be zeroed only when the weight is less than 2% of the full capacity.
- 2) Ensure the scales are unloaded.
- 3) Press 0/T and hold for 2 seconds.
- 4) The display should now display zero.

Semi-Automatic Tare:

- 1) Ensure the display is set to zero.
- 2) Place the empty container on the scales.
- 3) Once the **Stable Weight Indicator** appears, press 0/T to set tare and zero the display.
- 4) The tare status is now turned on; the indicator will display the net weight.

User Guide

Basic Functions

Manual Tare:

- 1) Use **RIGHT** and **UP** to set the required tare weight. Remember that the flashing digit is the selected one.
- 2) Press **0/T** to set this tare manually.
- 3) The tare status is now turned on. The indicator will display the net weight.

Removing tares:

- 1) To remove a tare, first check a tare status is displayed.
- 2) Press **0/T** which will switch to gross weight mode.

Weighing single items:

- 1) Place the item on the scales.
- 2) Wait until the **Stable Weight Indicator** is displayed.
- 3) Read weight displayed.

Low Battery Warning:

When the battery charge is less than 10%, the **Low Battery Warning** icon will display. After roughly two more hours of operation, the indicator will display [OFF] and will power down. Connect the AC adaptor to recharge the battery.

Accumulation Mode:

This mode is for measuring multiple items continuously. There are three different modes under this setting. These are;

- AUt = 0 : manually accumulate.
- AUt = 1 : automatically accumulate when loading items.
- AUt = 2 : automatically accumulate when removing items.

The Indicator will come shipped in AUt = 0 as a factory default setting.

User Guide

Basic Functions

To change which mode the indicator is currently in;

Press **STAR > STAR**, where [AUt = 0] will be displayed. Press **UP** to switch through the three different modes.

In this mode, [n] signifies how many items have been weighed.

AUt = 0:

- 1) Press **STAR**, where [n 0.0kg] will be displayed. Weigh, then wait until **Stable Weight Indicator** shows. Press **MANUAL ACCUMULATION**.
- 2) The display will quickly show [n 1].
- 3) Remove the weight and weigh the next item.

AUt = 1:

- 1) Press **STAR > STAR** to enter AUt settings, then **RIGHT > UP** to change to [AUt 1] settings. Press **STAR > STAR** to return to weighing mode. Place item on scales and wait for **Stable Weight Indicator** to appear.
- 2) As it does, the display will quickly show [n 1].
- 3) Remove the weight and weigh the next item.

AUt = 2:

- 1) Press **STAR** twice to enter AUt settings, then press **RIGHT** until you can change to [AUt 2], then **STAR > STAR** to return to weighing mode. Weigh the item and wait for the **Stable Weight Indicator** to appear. When it appears, notice an audible beep.
- 2) Remove the weight. As you do, the display will show [n 1]. Weigh the next item.

On all of these modes, the accumulated data will be automatically transmitted to RS232 port ready for printing if necessary.

You can also query the accumulated data:

Press **STAR**, **UP** and **UP** to toggle through HI and LO accumulated weight displays.

User Guide

Basic Functions

To clear accumulated data, press **STAR** until the display is for example [n 36], then press **O/T** which will return you to the normal weighing mode.

Set points:

There are four set points; A, B, C, and D. 3 symbols operate between these set points; LO, OK, and HI. These are displayed in the following conditions:

Symbol	Condition
LO	Set Point A \leq weight < Set Point B
OK	Set Point B \leq weight < Set Point C
HI	Set Point C \leq weight < Set Point D

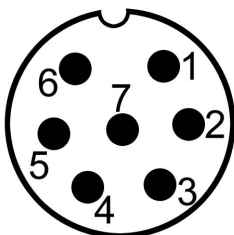
To enter Set Points;

- 1) Press **ON/OFF** to switch off the indicator.
- 2) Press and hold **UP**, then press **ON/OFF** to turn the indicator on whilst continuing to press **UP**.
- 3) [A.0000.0] will be displayed. Use **RIGHT** and **UP** to set Point A, then **STAR** to move to Point B.
- 4) Once you have set all four points, place the item on the scales. The Indicator will beep and display **HI**, **OK**, or **LO**.

User Guide

Technical Functions

Load Cell Connector:



Pin No.	1	2	3	4	5	6	7
Label	+E	+F	+S	-S	-F	-E	GND
Description	+Excitation	+Sense	+Signal	-Signal	-Sense	-Excitation	Ground

Connecting to a printer:

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

- 1) Connect the Indicator to the mini-printer via a serial cable.
 - 2) Print the current weight. Ensure the **Stable Weigh Indicator** is alight when printing.
 - 3) If printing accumulated data, press **STAR** when in weighing mode, then **ACCUMULATION MODE** and the reading will print. If using **AUt 1** or **AUt 2**, there is no need to press **ACCUMULATION MODE**; it will print automatically.
- Example of print reading:**

No : 1
G : 88.69kg (Gross Weight)
T : 29.41kg (Tare Weight)
N : 59.28kg (Net Weight)

Example of Accumulated Weight print reading:

No : 14 (Total Number of Items Weighed)
W : 118.09kg (Total Weight)

User Guide

Technical Functions

The A1-10 Indicator comes already configured. You should not need to enter Configuration settings unless there is a noticeable fault with its functions. If so, please follow these instructions.

Enabling Configuration and Calibration mode:

- 1) Switch off the indicator.
- 2) Remove the back cover.
- 3) Locate the 3-pin connector JP1 on the PCB.
- 4) Jumper EN and middle pin on JP1 to enable Configuration and Calibration mode.
- 5) Switch on the indicator to verify that the software version is displayed as [UE-50.0]. If the software version displays as [UEr50.0] then the indicator is not in Configuration and Calibration mode. Repeat step 4.
- 6) Switch off the indicator.
- 7) Connect the load cells to the indicator.

Configuration:

Step	Operation	Display	Description
1	Press ON/OFF for 2 seconds	[UE-50.0] > [000000] > [0]	Display software version then self-tests
2	Press STAR Press STAR	[CAL SP] [-SEt-]	In configuration and calibration mode Select menu
3	Press RIGHT	[d 1]	Factory default d = 1
4	Press UP Press UP	[d 2] [d 5]	Set d to 2 Set d to 5
5	Press STAR Press RIGHT Press RIGHT Press UP Press UP Press UP	[6000] [000000] [000000] [001000] [002000] [003000]	Current FS (full capacity setting) is 6000. Zero FS. 2nd digit is flashing. Move flashing to 3rd digit. Move FS to 1000. Move FS to 2000. Set FS to 3000.

User Guide

Technical Functions

Step	Operation	Display	Description
6	Press STAR Press RIGHT Press UP Press UP	[Flt 2] [Flt 0] [Flt 1] [Flt 2]	Factory default Filter = 2 (Filter range is 0-6: 0- fastest, 6- slowest. Zero Flt. Digit is flashing. Move Flt to 1. Set Flt to 2.
7	Press STAR Press RIGHT Press UP	[AUtP 1] [AUtP 0] [AUtP 1]	Factory default AUtP = 1 Automatic zero trace function of 0.5d per second. AUtP = 0 Automatic zero trace disabled. AUtP = 1 Automatic zero trace enabled. Zero AUtP. Digit is flashing. Set AUtP to 1.
8	Press STAR. Press RIGHT Press UP Press UP Press RIGHT Press UP Press UP	[Adr 00] [Adr 00] [Adr 10] [Adr 20] [Adr 20] [Adr 21] [Adr 22]	Factory default Address = 00 Adr = 00 Continuous RS232 data output (STX X1 X2 X3 X4 X5 X6 S) Adr = 99 Continuous RS232 data output (STX S X6 X5 X4 X3 X2 X1) Adr = 01 Set address to 01 Adr = 98 Set address to 98 Zero Adr. 1st digit flashing. Move Adr to 10. Set Adr to 20. Select 2nd digit. Move Adr to 21. Set Adr to 22.
9	Press STAR.	[b 2400]	Factory default baud rate = 2400 Baud rate = 1200, 2400, 4800, 9600
10	Press STAR.	[0]	Confirm configuration.

Disabling Configuration and Calibration Mode:

- 1) Switch off the indicator.
- 2) Remove the jumper from EN and middle pin on JP1 to disable.
- 3) Put the jumper on the pin on opposite end of EN and middle pin of JP1.
- 4) Switch on indicator to verify software version. It should be displayed as [UEr50.0]. If it is not this, repeat step 2.
- 5) Switch off the indicator, replace the back cover, and switch back on.

Troubleshooting

Resolution Guide

Below is a guide to indicator errors displayed on the screen.

LCD Error Codes:

Error Code	Description
[OUEr]	Weight exceeds capacity on current setting
[-OUEr]	Weight is under-loaded on current setting (less than 2% of full capacity)
[Error]	Calibration error; re-zero the scales
[OFF]	Low Battery warning; recharge the battery

For all other queries, please contact our Customer Support team. These details can be found on the Contact Us page of this manual.

Safety Advice

Safe Working Practice

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

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 product 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 -10°C and 50°C 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 to the display unit.

Do not overload the scales. This will cause damage to the product 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 are wires are kept clear from heavy objects as this will cause damage and prevent them from operating normally. Likewise, take extra precaution when lifting such heavy items to ensure there is no trip hazard.

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 Chef division please visit our website

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Address

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

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