



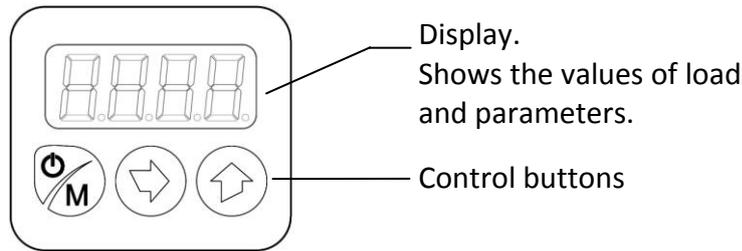
MBT-1500

User manual



The MBT-1500 is a hand-held measurement device to check and adjust the tension of flat belt traction ropes. The unit combines high accuracy with low power consumption and small size. It is powered by a 9 volts standard battery and it is provided with auto off function to extend the battery life.

1. DISPLAY AND CONTROL BUTTONS



2. TURN ON/OFF THE UNIT

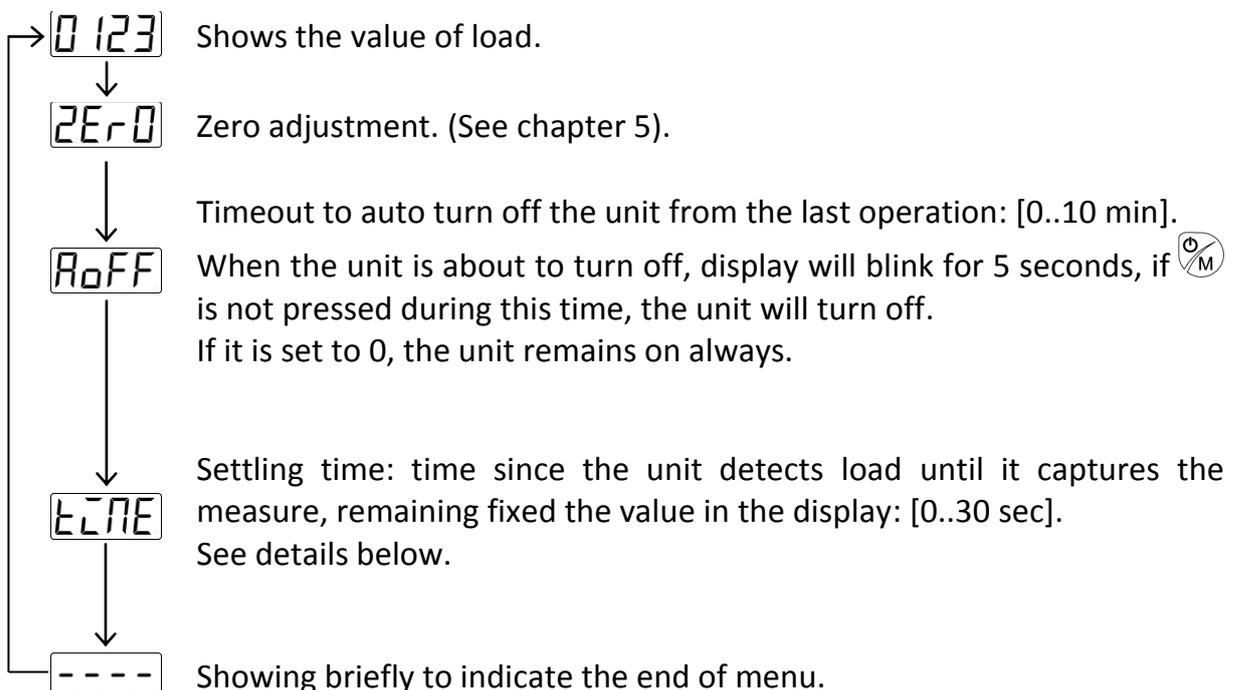
Turn ON: Keep pressed button  for 2 seconds.

Turn OFF: Keep pressed button  for 2 sec. when display is showing the load.

3. CONFIGURATION

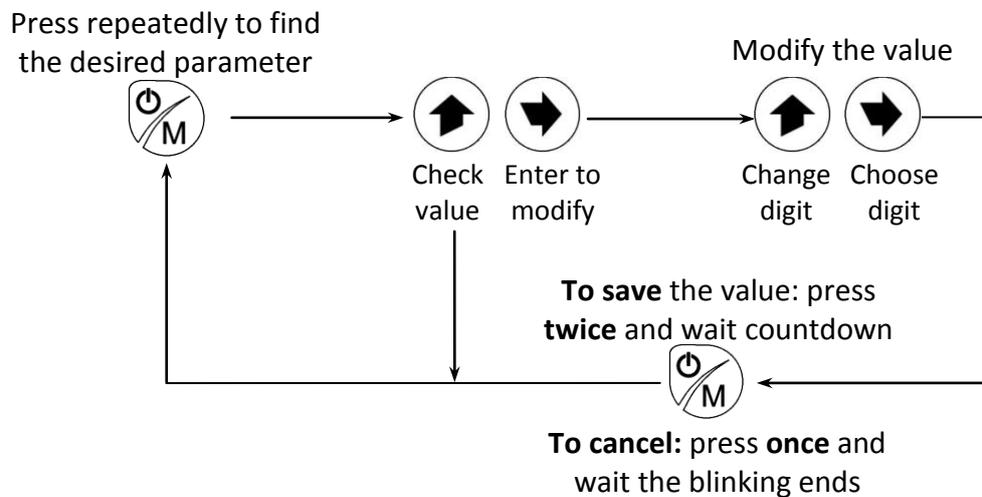
The behavior of the unit can be configured through the parameters of the user menu. This menu has the cyclic structure shown in the figure of below.

Access to the menu	Turn on the unit and press the button  .
Menu navigation	Press  repeatedly to move from a parameter to another.
Exit of the menu	When the end of menu is reached or if  is pressed for 2 seconds.



How to check or modify parameters

Once inside the adjustment menu:

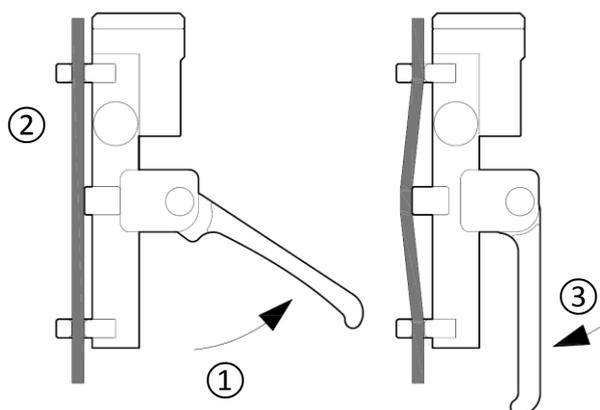


Using of parameter E_{TME} (Settling time).

When the device is attached to the belt, it starts to measure. When the time set in this parameter expires, the unit stops measure, and the value remains fixed in display. When the device is remove from the belt it starts to measure again. If it is set to 0, the unit shows the measure continuously.

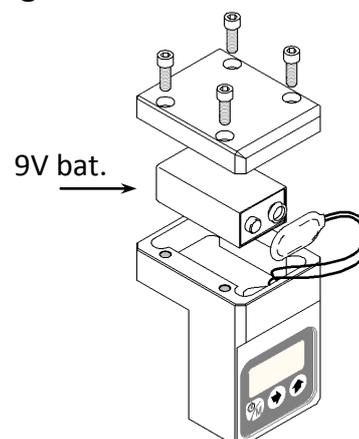
4. INSTALLATION ON THE BELT

1. Release the handle.
2. Introduce completely the belt between the hooks as shown in figure of below. Make sure the belt is well fitted to the hooks.
3. Close completely the handle firmly.
4. Check the load value in display.



5. BATTERY REPLACEMENT

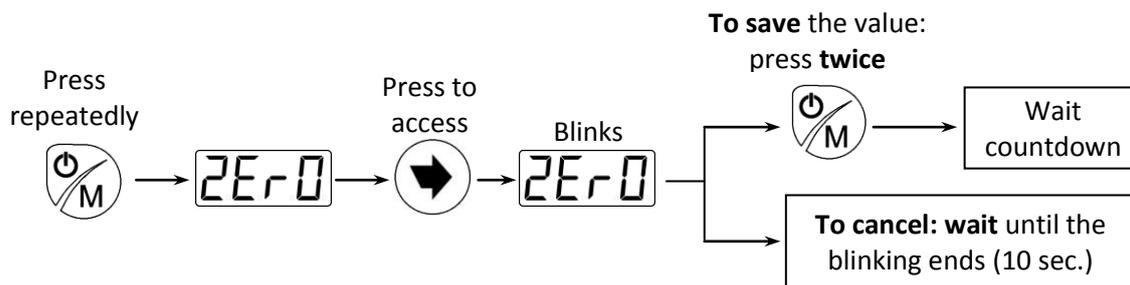
1. Remove screws of the top cover.
2. Replace the battery by another one of the same type (standard 9V).
3. Install the top cover and screw it again.



6. ZERO ADJUSTMENT

Place the device in a vertical position over a horizontal surface as shown in figure. The unit must be out any traction belt, with no load at all.

Then, follow operations of the next flow chart.



7. ERROR CODES AND TROUBLESHOOTING

	Error description	Action
	Negative overflow. The device is giving a negative signal too high.	Consult the manufacturer
	Positive overflow. The device is supporting a higher load than its nominal value.	Measure limit is 1500kg.
	Polarity error. This happens when the unit adjusts the load with the wrong load cell polarity, or there's no load during the adjustment.	Consult the manufacturer
	Loss of data in memory.	