Wand Motor - Operation & Progamming

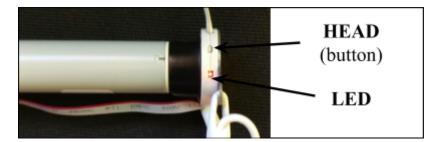
Version 1.0

All TM-WB Models

1. REFERENCE



| Types of Button Presses | | |
|-------------------------|---------------------------------------|--|
| Click | Press and release | |
| Hold | Press and hold for specified time | |
| Double-Click | Two clicks in less than ¾ of a second | |



2. BASIC OPERATIONS

| Command | Description | Key Combination |
|------------------|--|------------------------|
| Step-Up | Move the motor <i>up</i> a small amount. | Click UP |
| Step-Down | Move the motor down a small amount. | Click DOWN |
| Go-Up | Move all the way to the <i>upper</i> limit. ¹ | Hold UP for 1 second |
| Go-Down | Move all the way to the <i>lower</i> limit. ¹ | Hold DOWN for 1 second |
| Stop | Stop ongoing motion. | Click UP or Click DOWN |
| Go-To-Favorite-1 | Move the motor to favourite position 1.2 | Double-Click UP |
| Go-To-Favorite-2 | Move the motor to favourite position 2.2 | Double-Click DOWN |

¹⁻ The motor will stop on button release if the limit is not yet set.

 $[\]mbox{\ensuremath{2\text{--}}}$ The motor will take no action if the favourite position is not yet set.

3. ADVANCED OPERATIONS

| Command | Description | Key Combination |
|---------------------|--|---|
| Enter-Settings-Mode | Put the motor into Settings Mode. (The motor will jog, and LED will turn ON.) | Hold SET for 5 seconds³ or Hold HEAD for 3 seconds³ |
| Leave-Settings-Mode | Return the motor to Normal Mode. (This will happen automatically if no action is taken for 30 seconds. LED will turn OFF.) | Enter-Settings-Mode, then Click SET |
| Adjust-Upper-Limit | Start the process of setting the motor's upper rotational limit. (See Limit Setting Process below) | Enter-Settings-Mode, then Click UP |
| Adjust-Lower-Limit | Start the process of setting the motor's lower rotational limit. (See Limit Setting Process below) | Enter-Settings-Mode, then Click DOWN |
| Save-Limit | End the limit setting process, and save the limit at the current position. (See <i>Limit Setting Process</i> below) | Adjust-Upper-Limit or Adjust-Lower-Limit, then Click SET ³ |
| Reverse-Rotation | Reverse the direction of rotation. i.e. switch up and down. | Enter-Settings-Mode, then Hold SET for 5 seconds ³ |
| Set-Favourite-1 | Set favourite position 1 at this position. (See Setting Favourite Positions below) | Double-Click SET, then Double-Click UP ^{3, 4} |
| Set-Favourite-2 | Set favourite position 2 at this position. (See Setting Favourite Positions below) | Double-Click SET, then Double-Click DOWN ^{3, 4} |

³⁻ The motor will jog back-and-forth after this command.

Limit Setting Process

The motor's upper and lower rotational limits are set individually. To set a limit:

- 1. Hold SET for 5 seconds (Enter-Settings-Mode).
- 2. Choose the limit to set. Click UP (*Adjust-Upper-Limit*) to adjust the upper limit, *or* Click DOWN (*Adjust-Lower-Limit*) to adjust the lower limit.
- 3. Adjust the motor to the desired limit position using the UP and DOWN buttons.
- 4. Click SET to save the limit at this new position (*Save-Limit*). The motor will jog back-and-forth to confirm the that the new limit has been saved.

Setting Favourite Positions

Once the upper and lower limits are set, the motor can store two favourite (intermediate) positions. To set one of these positions:

- 1. Move to the position you want to store as a favourite position using UP and DOWN.
- 2. Use Set-Favourite-1 or Set-Favorite-2 to save. The motor will jog back-and-forth to confirm.

You can also clear a favourite position by setting it at the same place again. For example, to delete favourite position 1:

- 1. Move to that stored favourite position using *GoTo-Favorite-1*.
- 2. Call Set-Favourite-1 to delete. The motor will jog back-and-forth to confirm.

Note you cannot set favourite positions until after the upper and lower limits are both set.

⁴⁻ This entire key sequence must be completed within 10 seconds.