

Digital Linear Scales

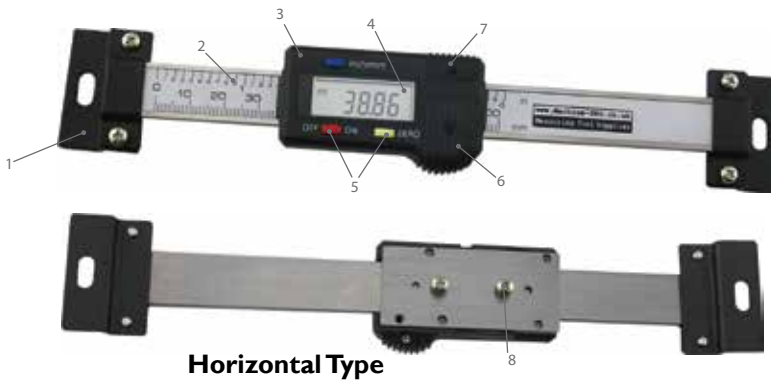
Part No: AE-MAN-DS

Doc V: 1.0

Precautions

- Before using the linear scale for the first time, wipe with a clean cloth ideally soaked with cleaning oil.
- The scale is a precision measuring instrument. Avoid using excessive force, and treat with care.
- The fitted battery is intended for the factory test procedure and therefore may not meet the specified battery life.
- Avoid exposure to all liquids, excessive humidity or temperature.
- Avoid exposure to bright sunlight.
- Never apply voltage on any part of this linear scale or electric engrave.
- Remove the battery if the scale is not being used for a long period of time.
- Never use solvents to clean. Only use a soft cloth with cleaning oil.
- Ensure the linear encoder is mounted parallel and correct alignment of the reading head.

Linear Digital Scale



1. Beam clamp.
2. Beam.
3. Reading head.
4. LCD display.
5. Function button.
6. Battery cover.
7. Data output cover.
8. Reading head fixing.

The Linear scale must be aligned parallel to the machine travel. Use a dial gauge or DTI to set parallel.

The travel of the reading head must also be aligned correctly to the scale beam, otherwise damage will occur.

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Battery Replacement



1. Slide open the battery cover.



2. Lift battery cover front edge.
3. Remove cover.



4. Remove battery (a magnet tip tool can be used).
5. Locate side spring contact.



6. Insert replacement battery edge against side contact.
7. Press down on other edge.



8. Insert the two lugs on the cover.
9. Gently lower battery cover.



10. Pull battery cover outward slightly.
11. Fully lower cover



12. Slide battery cover fully closed.



Side Type Cover

1. Slide open the battery cover.
2. Remove battery. (a magnet tip tool can be used).
3. Locate side spring contact.
4. Insert replacement battery edge against side contact.
5. Press down on other edge.
6. Slide battery cover closed.



Zero Display

Press zero to clear

Metric/Inch conversion

Press mm/inch to convert from metric to inch display.

The display will indicate which units are being displayed.

Scale with Preset Function (not available on all models)

Press and hold the SET button. (If no SET button press and hold ZERO)

Press arrow buttons to increase & decrease value. Release SET button. Press SET display to the preset.

Vertical Scale Preset Function

Press up or down arrow buttons to increase & decrease display value.

Release arrow button when desired value is displayed.

Scale with ABS Function (not available on all models)

Press ZERO button.

Travel the reading head, for example 30mm

Press ABS button to switch to incremental. Travel the reading head for example 20mm.

Press ABS to switch back to Absolute display. Total distance traveled from zero.

Trouble Shooting

Problem	Possible Cause	Solution
Flashing display	Low voltage Poor contact	Replace battery Clean contact
No display	Dead or weak battery Poor contact	Replace battery Clean contact
No change to display	Internal error "H" shown on display	Remove battery for 1 hour Remove battery for 5 minutes
Can't zero	Hold function active Tolerance function active	Switch off function Switch off function
Erratic or frozen display	Contamination between beam & head low voltage	Wipe clean Replace battery
Erroneous reading	Low voltage Contamination between beam & head Scale not parallel to travel Low ambient temperature	Replace battery Wipe clean Adjust parallel with dial gauge/DTI Store at normal room temperature

