



Requires  
2 AA Batteries:  
NOT INCLUDED

**MP401E**  
Metal  
Professional  
Electronic  
Measuring Wheel



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## Specs

**Backlight LCD** display for low-light usage.

**Auto Shut-off** extends battery life.

**Built-in kickstand**

**Display:** LCD segment; 7 digits; up to 99,999 ft. 11 in. or 99,999.9 in tenths and metric

**Number Size:** 1/2 in.

**Warranty:** 2 year limited

**Memory:** 8 measurement recall

**Add wheel radius** for wall-to-wall measuring

**Units:** feet & inches; continuous inches; feet & 10ths (decimal feet); metric

**Calculations:** Length, area, unit conversions

**Power:** 2 AA batteries

**Wheel Composition:** Spoke wheel with precision turned circumference

**Maximum Speed:** 10 mph (16.25 Km/h)

**Product Weight:** 7 lbs. (3.17 kg)

**Length:** Extended: 42 in. (106.7 cm); Storage: 21 in. (53.4 cm)

**Accuracy:** 2 inches in 100 feet, 99.8%

**Wheel:** 4 ft. (1.22 m) circ.; 15 1/2 in. (31.75 cm) dia.

**Frame Material:** 3/4 in. steel tubing

**Collapsing method:** 1 fail-safe barrel clamp

Please Note: All measuring wheels are estimating tools. While the MP401E is accurate to within 2 inch every 100 feet in ideal conditions, real-world environments and usage are rarely ideal. A measuring wheel gives you the surface distance between two points. Ups and downs, over a field for instance, will register in the readout. Any deviation from a straight line will show up, too.

07232 MP401E Instructions



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For more information on the MP401E and other wheel options check out [www.keson.com](http://www.keson.com).  
Keson Industries reserves the right to impose reasonable limitations based on excessive wear, abuse, accident, alteration, modification, tampering, negligence, misuse, or lack of reasonable care of any product. Merchandise claimed defective must be returned, transportation charge prepaid, for our inspection and decision.  
Our guarantee for electronic wheels is 2 years against defects in material and workmanship only.

## GUARANTEE

Automatic shut-off after 30 minutes to ensure longer battery life. The MP401E will display "TOO FAST" if the speed of the wheel exceeds the maximum range of data processing speed (about 10 mph). The LCD display can be reset by holding the CLEAR button for 3 seconds.

## OTHER FEATURES

### MP401E Instruction Manual

The MP401E is the only electronic wheel with a steel frame. It is the world's sturdiest electronic measuring wheel, and we think it's the easiest and the most comfortable to use. We are confident that it will stand up to the harshest field conditions.

### Swan-neck, ergonomic handle

Our patent-pending thumb-up grip ensures less wrist strain and superior control.

### Reliable input system: magnetic sensors

Dust, dirt and other particles can disrupt a light beam used in competitive units. Our magnetic pick-up does not have these problems.

### Sealed counter encasement

Designed to NEMA Class II standards, our counter housing ensures that it will not be damaged by rain. What's more, you can safely clean the entire wheel with a spray of water.

### Counter size & placement

Our huge digital counter is in the most protected spot on the wheel. With the handle up, it is nearly impossible for the counter to come into contact with the ground. With the handle down, the roll bar offers solid protection.

### Advantages of all MP series wheels

- Innovative, simple **center-line design, great balance.**
- Rugged 3/4" steel frame—**strongest frame in the field.**
- Compact fold-down—easily **reduces to 1/2 its size** for storage and portability. Storage is a snap.



## GETTING STARTED

Remove the 2 retaining screws to access the battery compartment. Install 2 "AA" batteries in the back of the control module.

## ON / OFF

ON: Press the ON/OFF button.

OFF: Press the ON/OFF button and hold for 3 seconds.

## PAUSE / CLEAR

To retain current measurement: Press PAUSE/CLEAR

To clear current reading: Press the PAUSE/CLEAR button and hold for 3 seconds

To save a measurement in memory, see MEM.

NOTE: Press PAUSE before picking the wheel up or saving measurements. If you have not pressed PAUSE, and the wheel moves, your measurement will change.

## UNITS

To change from *continuous inches* to *feet and inches* to *feet and 10ths* to *metric*: Press UNITS button

## Light Bulb

To illuminate the display for 5 seconds: Press the light bulb icon.

## ADD RADIUS

When measuring from a wall to a point, or from a wall to a wall, the wheel itself needs to be included. The radius equals 1/2 of the wheel diameter, about 7 1/2 inches.

Press ADD RADIUS once to add one wheel radius to the current reading. This will show as 8 inches, and a half circle appears under the measurement.

Press ADD RADIUS again to add a second radius (or one full wheel diameter) to the reading, and a full circle appears under the measurement. You have added 15 inches to your measurements.

Press ADD RADIUS a third time to return to the original measurement.

## MEM

Save up to 8 measurements. Use in conjunction with SAVE/MRC.

1. Press PAUSE to capture your measurement. Note: if you do not press PAUSE, the measurement can change if the wheel is rotated while in memory mode.
2. Press MEM. A flashing square in first spot of the second line of the display lets you know that you are in memory mode. The measurement displayed is the measurement in the slot under the square.
3. To view saved measurement or to find an open slot: Press MEM.
4. To Save: Press SAVE/MRC, see SAVE/MRC.
5. To Exit MEM mode: Press MEM and hold for 3 seconds.

## SAVE/MRC

Save up to 8 measurements. Use in conjunction with MEM.

1. Press PAUSE to capture your measurement.
2. Press MEM to choose the memory slot in which you wish to save your measurement.
3. Press SAVE/MRC to save the measurement in the indicated memory slot.

The readout automatically returns to measurement mode after saving the reading to memory.

Press SAVE/MRC to overwrite any data that had been saved previously in a memory slot.

To clear all measurements out of the memory, hold the SAVE / MRC button for 3 seconds. After a memory slot is cleared, the LCD readout will automatically return to measurement mode.

## AREA

To measure the area of a rectangle using the formula Length x Width, first measure the length and save to memory slot #1 using the above procedure. Next measure the width.

Press PAUSE to capture your measurement.

Press the AREA button to multiply the value in memory slot #1 by the current measurement value. The readout will give the area rounded to the nearest whole unit.

While in AREA mode, the UNITS button may be used to toggle through Inches<sup>2</sup> to Feet<sup>2</sup> to Meters<sup>2</sup>.

Press the AREA button again to return to measurement mode.