



# Operating Manual

Please Read Before Operating Unit



## WM Series Measuring Meters

Please Call for Service or Spare Parts

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# WM Series Wire & Cable Measuring Meters

## ORDERING INFORMATION

- AR0610 (WMI)..... Wire and cable meter reading in feet and inches to 9,999' 11", steel rollers
- AR0630 (WMIU) ..... Wire and cable meter reading in feet and inches to 9,999' 11", urethane rollers
- IR0491 ..... Optional bench stand
- IR0492 ..... Optional adjustable floor stand



Meters specifically designed to measure long lengths of wires, cables, flat cable, and other flexible materials used in the electrical, electronic, and associated industries. Units are available measuring in feet and inches or in meters and 1/10 meters and are self-adjusting for material diameter or width. A digital counter records the amount of material measured. In cases where the material to be measured has a hard, uneven, or slippery outside jacket, the WMIU with urethane rollers may provide better accuracy.

## SPECIFICATIONS

WMI, WMIU ..... Measures in feet & inches to 9,999' 11", resettable

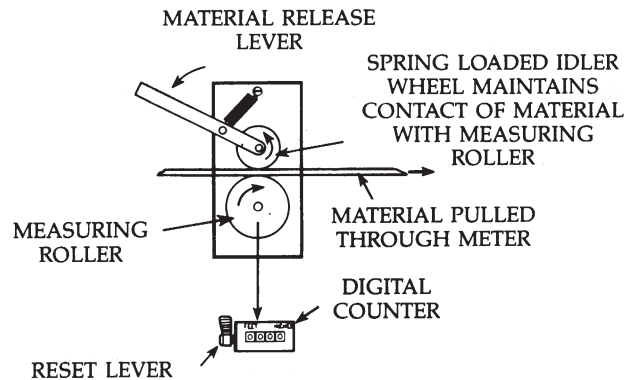
### All units:

Measure rates..... up to 1,000' (305M) per minute  
 Material size ..... Flexible material from 1/64" (0.40mm) to 2" (50.8mm $\varnothing$ ) diameter or width  
 Accuracy..... Normally  $\pm$  .5% depending on material and feed

### Stands:

Bench (optional) ..... Raises meter so material feeds through meter 12" (305mm) from bench surface  
 Floor (optional) ..... Adjustable and raises meter so that material feeds through meter between 29" (737mm) and 47" (1194mm) from the floor.  
 Swivel feature for correct lateral adjustment of meter  
 Size..... 10-1/4" x 6-1/4" x 7" (260mm x 159mm x 178mm)  
 Weight ..... 9-1/2 lbs. (4.3 Kg)

## OPERATION



## OPERATING INSTRUCTIONS

### SET-UP:

These instructions pertain to Models WMI and WMIU measuring meters. All meters are shipped complete, and include the following mounting hardware: 2 Hex screws; 2 Flat washers; 2 Hex nuts. Also included is an additional tension spring (PR3735), and an adjusting wrench (TG3028).

Maximum measuring accuracy is achieved when the material is perpendicular to the line connecting the centers of the measuring wheel and the idler wheel. The spacers in the meter are positioned to help ensure this. The meter is shipped with a spacer

# WM Series Wire & Cable Measuring Meters

installed 1" above the measuring wheel on the input side to guide material coming from above the meter. If material larger than 1" in diameter is being measured, move this spacer to the set of holes 1" above its current location.

On the output side of the meter, there is an additional pair of holes in the side frame lower than the spacer as installed at the factory. If the material is very stiff or has a lot of camber, move this spacer to the lower set of holes to improve accuracy.

The meter can be mounted directly to a bench, using the screws enclosed. Drill 2 holes - 2 3/4" center to center, and .280" in diameter. The meter can also be mounted directly to either the optional IR0491 bench stand or the IR0492 adjustable floor stand, using the hardware provided.

Once the unit has been mounted, adjust the material input guides by using the adjusting wrench provided. The guides should be adjusted for the size of the material to be measured, to keep the material centered on the measuring roller. Be sure to allow free movement of the material within the guides.

## **OPERATION:**

Depress the material release lever and insert the material to be measured, between the input guides and under the top roller. Line the material up even with the front edge of the meter. Reset the digital counter by pushing the reset lever. Pull the material through the meter until the desired length has been measured on the counter. Cut the material off even with the front edge of the meter.

Reset the counter to zero and repeat for the next length. The counter will count backward as well as forward, so if too much material is pulled through, simply pull it backward from the input guide end to achieve the desired length.

All meters are shipped with one tension spring installed on the material release lever. Some slippery or uneven materials may require more tension in order to measure accurately. If more

tension is required, first move the existing spring from its current position in the center groove to one of the outside grooves. Install the second spring provided with the unit (PR3735), on the other outside groove. It is important that the two outside grooves be used if both springs are attached, in order to maintain even pressure on the idler roller. When using only one spring, ensure it is located on the center groove. Use care when installing springs, to prevent injury.

## **MAINTENANCE:**

Occasionally lubricate all moving parts sparingly, with a light machine oil. Keep unit clean for best performance. No other maintenance is required.

## **TROUBLESHOOTING:**

**PROBLEM:** Inaccurate measurement of material.

### **SOLUTIONS:**

- 1) Check that material is entering and exiting meter in a straight line.
- 2) Check that there are no kinks or bulges in the material being measured.
- 3) Add second tension spring for better roller tension.

**PROBLEM:** Inconsistent measurement of material.

### **SOLUTIONS:**

- 1) If using slippery material, add second tension spring or try urethane wheels.
- 2) Check that rollers are turning freely and are not bound up with dirt. Clean if required.

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