

Operating Instructions for  
**Accutrack** Model Railroad Speedometer  
HO & N Scale Version

Congratulations on your purchase of the Accutrack Model Railroad Speedometer. Your unit's accuracy is derived from the 1 Megahertz clock of the microcontroller computer chip. Your trains travel time between the two infrared sensors is measured and then used to calculate the scale Miles per Hour for your train.

Step 1 – Install the 2 included AAA batteries in the back of the control box located inside the plastic tunnel. Observe the labels which show the correct battery installation direction.

Step 2 – Sit the unit over the track in a convenient location where you can observe the MPH readout window on the front of the unit.

Step 3 - Turn on the power by moving the switch on the lower left corner of the front panel to the on position. The current scale setting for the unit will appear in the window (n or HO).

Step 4 – Units are shipped preset in HO scale. If you need to change the scale, use a paper clip to press the button inside the hole labeled “Scale” on the right side of the display window. The unit will step through the scales with each press of the button. Stop when your desired scale is displayed. Turn the power off and back on to load the calibration factors for the chosen scale. An internal memory in the unit will remember this scale, even if the unit is turned off or the batteries are removed. The scale can be changed at any time necessary

Step 5 – With the unit on and the proper scale set, verify that the unit is spaced over the track so that your train will clear the tunnel without contacting it. Run you train through it and observe the speed!

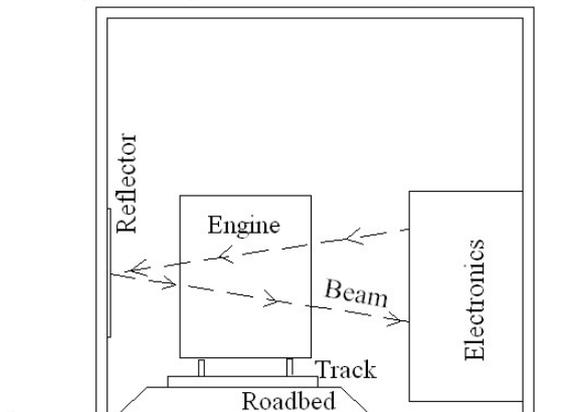
Operation – The 3 digit display displays the speed measured for the train. Below 10 MPH, the display displays in 1/10 MPH increments (i.e. x.x). Above 10 MPH, the unit displays in full units of MPH.

The display will stay on for about 4 seconds after the last unit of the train clears the second timing light. During this time, no new speed measurements can be taken. As soon as the display times out and turns off, the center decimal point will begin flashing once per second as an indication that the unit is ready for another measurement and as a reminder to you that the power is on and the battery is in use. A battery saving feature kicks in after 5 minutes of non-use (no trains). After this 5 minute period, the unit powers down and remains powered down until the switch is turned off and back on. **It will not detect a train once it**

**has powered down, until it is reset!** It is still recommended that you turn off the unit once you are done using it, but if you forget, it will turn itself off.

The decimal point on the display is also used to indicate the initiation of a timing cycle. As the train enters the timing tunnel, the decimal point on the side from which the train has entered will turn on as the speed timing begins ( i.e. as soon as the first light beam of the trap is broken).

If the display begins to dim, or you begin to get erratic readings for what appears to be constant speeds, this is an indication that the batteries are getting low and should be replaced (2 AAA batteries).



For sensing height (especially for N scale), the following speedometer placement is recommended:

Make sure speedometer is sitting squarely on flat surface of layout. Roadbed can be either cork or foam or built in roadbed such as Kato Unitrack.

Thank you for your purchase of this unit. We at Model Railroad Technologies want you to be completely satisfied with your unit. If you have any questions or concerns about your unit, or any ideas on how it might be improved, please contact us at:

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