



## Speed Reduction Equipment Rail Master Radar Gun (RHHR)

The Rail Master Radar Gun is specifically designed for use within the rail industry. It provides accurate speed measurements at very low speed (3mph) to the nearest 0.1mph and in high speed mode it will measure trains moving up to 320mph. The Rail Master is built to withstand the rigors of track side life within the rail industry with the performance you expect. An ideal tool for managing and checking speeds within the rail industry such as marshalling shunting yards and monitoring train speeds through engineering works to worker safety.

The user has the ability to measure trains either approaching or moving away up to a maximum distance of 250m. The Rail Master comes complete with a tuning fork to verify accurate measurements prior to use and also a 12 month calibration certificate.

The Rail Master's features include –

- ❖ Based off the popular traffic gun platform
- ❖ Extremely rugged, lightweight design with ABS polycarbonate housing
- ❖ AA rechargeable batteries can be easily replaced
- ❖ Easy to use features and functions
- ❖ Automatically configures and ready to use within 10 seconds
- ❖ 2 Speed measurement for high (72-320mph) and low (3.0-71.9mph)
- ❖ Available in MPH or KPH

The Rail Master would be best used for monitoring on –

- ❖ Trackside works
- ❖ Shunting areas
- ❖ Carriage servicing
- ❖ Braking system testing
- ❖ Acoustic measurements



Front View

Battery Pack

Control Surface

General	
Type	Stationary hand held Doppler radar
Accuracy	± 0.1 unit of measure (low speed) (± 1 unit of measure (high speed))
Ambient Operating Temperature	-22°F to +158°F (-30°C to +70°C)
Controls	Rubber keypad with Menu, Select, Power, Recall and Mode buttons. Trigger switch
Display	LCD with backlight
Display LCD	Displays the speed readings, menu options, and message icons. Display can be set to show speeds in 10ths or whole units.
Features	DSP, 32 bit processing. Capable of displaying speed in two ranges with the ability to recall the last measured speed.
Frame	Housing is a rugged ABS Polycarbonate Blend
Maximum Humidity	90% relative humidity @ +98.6°F (+37°C)
Dual Power	Six (6) AA NiMH batteries or detachable 12 VDC power cable with lighter plug
Speed Range	Low Speed = 1.0 to 75.0 MPH (2.0 - 122.0 KM/H)  High Speed = 10 to 210 MPH (20 to 337 KM/H)
Speed Units	Miles-per-hour (MPH) Kilometers-per-hour (KM/H)
Standard Warranty	2 years parts & labor
Water Resistance	Meets International Robustness Standard IEC 529:1989 and European Community Standard EN60529 Classification IP55

Mechanical	
Dimensions	10.25" (H) x 3" (W) x 7.25" (L) (26.305 cm x 7.62 cm x 18.415 cm)
Weight	2.1 lbs (0.952 kg) with batteries

Electrical - Power	
Battery Requirements	Six (6) AA Nickel-Metal-Hydride (NiMH) rechargeable batteries (User replaceable)
Battery Voltage Range	+6.1 VDC to +7.2 VDC
Battery Low Voltage Shutdown	+6.1 VDC
Detachable Power Cord	Plugs into the cigar lighter receptacle of the vehicle
Power Cord Voltage Range	+8.5 VDC to +16.5 VDC
Power Cord Low Voltage Shutdown	+ 8.5 VDC

Electrical - Power Consumption Parameters (All currents measured at 7.2 VDC with backlight on)	
Standby (antenna off)	0.105 amperes
Antenna ON (no targets)	0.170 amperes
Antenna ON (with targets)	0.172 amperes
Antenna OFF (segment check "888")	0.116 amperes
Antenna ON (segment check "888")	0.180 amperes

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**The RHHR is most popular for use within the following areas to offer a site solution**

- Rail Industry
- Rail Braking System Checks
- Shunting Yard Marshalling
- Engineering Speed Restrictions
- Tram Speed Monitoring