



| General - Railmaster II®         |   |  |
|----------------------------------|---|--|
| Туре                             | Stationary hand held directional Doppler radar  |  |
| Accuracy                         | $\pm$ 1 unit of measure ( $\pm$ 1 mph, $\pm$ 1 km/h, $\pm$ 1 m/s, $\pm$ 1 fps, $\pm$ 1 knot)  |  |
| Ambient Operating<br>Temperature | -22°F to +158°F<br>(-30°C to +70°C)   |  |
| Audio                            | Five (5) audio volume levels  |  |
| Beep Volume<br>Setting           | 1, 2, 3, 4, 5 (Max) or OFF  |  |
| Charging Port                    | USB-C   |  |
| Communications                   | RS232   |  |
| Controls                         | Rubber keypad with Power (PWR), Menu<br>, Recall (RCL) buttons and Trigger switch   |  |
| Directionality                   | Measures approach and recede targets  |  |
| Directional Settings             | Approach only, Recede only, Both directions   |  |
| Display                          | Color LCD with backlight  |  |
| Display LCD                      | Displays target and locked target speeds<br>along with all menu options and message<br>icons including Xmit, Hold, Lock and<br>battery level with % level left. |  |
| Features                         | DSP, 32 bit processing. All features saved<br>on power down.  |  |
| Frame                            | Housing is a rugged ABS Polycarbonate Blend   |  |
| Light Indicators                 | Green Charge Status   |  |
| Maximum Humidity                 | 90% relative humidity @ +98.6°F (+37°C)   |  |
| Menu Settings                    | Speed Range, Dimmer (Auto or Manual),<br>Beep (ON or OFF), Units, COM port<br>settings, Auto Shutdown (<5, 10, 15<br>minutes or OFF)                            |  |
| Range Settings<br>(Sensitivity)  | 1, 2, 3, 4 or 5 (maximum range)   |  |
| Speed<br>Measurements            | <b>mph</b> (miles-per-hour), <b>km/h</b> (kilometers-<br>per-hour), <b>m/s</b> (meters-per-second), <b>fps</b><br>(feet-per-second), <b>kn</b> (knots)          |  |
| Speed Ranges                     | See page 2  |  |
| Standard Warranty                | 2 years parts & labor   |  |
| Track Through Lock               | Lower speed strongest, upper display speed is locked.   |  |

© 2024 Decatur Electronics, LLC. All Rights reserved. Specifications subject to change. Rev 2-9-24

| Mechanical |   |  |  |  |
|------------|---|--|--|--|
| Dimensions | 8.25" (H) x 3.5" (W) x 3.75"<br>(L) (20.955 cm x 8.89 cm x<br>9,525 cm) |  |  |  |
| Weight     | 1.8 lbs (0.816 kg)  |  |  |  |

| Electrical  |   |
|---|---|
| Battery   | Internal Lithium-Ion<br>(Not User Servicable) |
| Battery Low<br>Voltage<br>Shutdown<br>(with antenna on) | +6.0 VDC                                      |
| Detachable<br>Charging Cable                            | USB to USB-C                                  |
| Runtime<br>Between<br>Charges                           | Approximately 1 week with normal use.         |



## www.decaturelectronics.com

920 S. Andreasen Drive Suite 103 Escondido, Ca. 92029

800.428.4315 Outside USA 217.428.4315





## Antenna

| FCC Part 15           |
|-----------------------|
| 24.125 GHz            |
| 12° H, 24° V          |
| Linear (Vertical)     |
| 7mW                   |
| <1 mW/cm <sup>2</sup> |
|                       |

## www.decaturelectronics.com

920 S. Andreasen Drive Suite 103 Escondido, Ca. 92029

800.428.4315 Outside USA 217.428.4315

| Speed Ranges            |           |            |              |           |            |           |
|-------------------------|-----------|------------|--------------|-----------|------------|-----------|
| mph<br>(miles-per-hour  | Low Speed | 0.5 to 150 | Medium Speed | 10 to 225 | High Speed | 20 to 311 |
| km/h<br>(miles-per-hour | Low Speed | 0.8 to 241 | Medium Speed | 16 to 362 | High Speed | 32 to 500 |
| m/s<br>(miles-per-hour  | Low Speed | 0.2 to 67  | Medium Speed | 4 to 100  | High Speed | 9 to 139  |
| fps<br>(miles-per-hour  | Low Speed | 0.7 to 220 | Medium Speed | 14 to 330 | High Speed | 29 to 456 |
| knots                   | Low Speed | 0.4 to 130 | Medium Speed | 8 to 195  | High Speed | 17 to 270 |

| Communic | ation Selections (Serial)  |           |                            |
|----------|----------------------------|-----------|----------------------------|
| Com 0    | No Output                  | Com 5     | No Output – Legacy Support |
| Com 1    | Diagnostic                 | Com 6     | No Output – Legacy Support |
| Com 2    | Diagnostic                 | Com 7     |                            |
| Com 3    | No Output – Legacy Support | Com 8     | No Output – Legacy Support |
| Com 4    | No Output – Legacy Support | Com 9 &10 |                            |

| Serial Format  |  |
|--|--|
| Standard serial communications<br>has the following characteristics<br>(8N1) and is transmit only: | <ul> <li>One (1) start bit</li> <li>Eight (8) data bits</li> <li>No parity</li> <li>One (1) stop bit</li> <li>Transmission at 1200 baud</li> </ul> |
| Data is transmitted as ASCII<br>symbols in the following digital<br>sequence:                      | [hundreds] [tens] [ones]<br>( <cr>=ASCII decimal value 13)</cr>  |



© 2024 Decatur Electronics, LLC. All Rights reserved. Specifications subject to change. Rev 2-9-24