RIM M100 Encoder Tester

Key Features

- Performs up to 18 Tests of Signal Output Quality; Simple One Keystroke Access to Tests
- Interfaces with Most Major Brands of Digital Tachometers and Encoders
- Fast Encoder Checkout with Numeric Value Display

**SPECIFICATIONS**

**ELECTRICAL SPECIFICATIONS**

**Controller:** 68HC11 microcomputer  
**Frequency Response:** 10Hz - 10kHz  
**Signal Input:** 5-15 VDC digital line driver signal  
**Power:** 110 VDC power pack or 9 VDC battery  
Keyboard power on/off

**MECHANICAL SPECIFICATIONS**

**Size:** 7.50”(191mm) x 4.00”(102mm) x 3.00”(77mm)  
**Weight:** 0.94 lbs. (0.43 kg)  
**Display:** 4 line x 16 character LCD  
**Keyboard:** 24 key membrane sealed, contamination resistant

*Specifications subject to change without notice.*

**TESTS PERFORMED**

**Function**  
- Signal Pulse State: Continuous display of high/low signal state (A,B,Z)  
- Complementary: Display high/low state of complementary signals  
- Pulses Per Second: Count number of pulses detected each second (100 kHz maximum)  
- Pulse Counter: Display a continuous bidirectional count of detected pulses (10 digits)

**Phase**  
- Quadrature Phase: Display actual phase angle (±1% accuracy, derated at higher speeds)  
- Min & Max Phase: Detects and holds the extreme quadrature phase angles  
- Pulse Duty Cycle: Continuous update display (±1% accuracy, derated at higher speeds)  
- Min & Max Duty: Detects and holds the extreme duty cycles

**RPM**  
- RPM: Calculates RPM (100 kHz maximum)  
- Min & Max RPM: Detects and holds the extreme RPM (100 kHz maximum)  
- Direction of Rotation: Displays + or - to indicate direction of signal input

**Marker**  
- Number of Pulses: Display number of pulses detected between markers (10,000 PPR max)  
- Marker Pulse Presence: Display signal when marker is received  
- Count Error: Detects and displays the number of pulse counts different from input count  
- Revolution Counter: Display a continuous bidirectional count of revolution (10,000 revolutions)

**ORDERING INFORMATION**

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<th>Part Number:</th>
<th>Description</th>
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<tr>
<td>RIMM100RC</td>
<td>M100 system with RIM Tach® connector</td>
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<tr>
<td>RIMM100SC</td>
<td>M100 system with SLIM Tach® connector</td>
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<tr>
<td>RIMM100MS10D</td>
<td>M100 system with standard 10 PIN Differential</td>
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<td>RIM M100 RSC</td>
<td>M100 system with 4 Connectors: RIM; SLIM; MS-10 PIN; Avtron 10 PIN</td>
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<td>RIM TEST KIT</td>
<td>M100 system with RIM Tach® connector</td>
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**Options**

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<th>Part Number:</th>
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<td>RIMETEUROCON</td>
<td>Spare Eurostyle connector with strain relief</td>
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<tr>
<td>RIMETCABLE-RIM</td>
<td>Cable harness, RIM Tach® connector</td>
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<td>RIMETCABLE-SL</td>
<td>Cable harness, SLIM Tach® connector</td>
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<td>RIMETCERT</td>
<td>Recalibration and certification service</td>
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*NOTE: All specifications are subject to change without notice.*