

RIM M100

NorthStar™ brand

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.

ORDERING INFORMATION

Part Number:	Description
RIMM100RC	M100 system with RIM Tach® connector
RIMM100SC	M100 system with SLIM Tach® connector
RIMM100MS18D	M100 system with standard 10 PIN Differential
RIM M100 RSC	M100 system with RIM & SLIM
RIM TEST KIT	M100 system with 4 Connectors: RIM; SLIM; MS-10 PIN; Avtron 10 PIN
Options	
RIMETEUROCON	Spare Eurostyle connector with strain relief
RIMETCABLE-RIM	Cable harness, RIM Tach® connector
RIMETCABLE-SL	Cable harness, SLIM Tach® connector
RIMETCERT	Recalibration and certification service

TESTS PERFORMED

Function	Test	Function
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 sec-ond (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)



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