

LAKESHORE M100 RPM / TACH M100 DIGITAL ENCODER Checking Device



RIM M100 Digital Tachometer Tester: Interfaces with most major brands of digital tachometers and encoders Performs up to 18 tests of signal output quality with simple one keystroke access to tests for ease of use Fast encoder checkout with numeric value display for time efficiency

Rating: Not Rated Yet

Price

[Ask a question about this product](#)

Description

Oscilloscopes can be used to test Encoders but for some they can be difficult to operate and they require additional equipment like RIM M100 to provide a full and accurate test.

RIM M100 Encoder Tester [http://www.dynapar.com/Videos/Video__Oscope_Testing/]

[Data at manufacturer site](#)

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

APPLICATION/INDUSTRY

The NorthStar brand RIM Tach® M100 Encoder Tester is an easy to use instrument developed especially to evaluate the signal presence and quality produced by a digital tachometer or encoder.

DESCRIPTION

Utilizing 68HC11 microcomputer electronics, the M100 can accurately interpret the signal phase and duty cycle from the encoder in a variety of applications, including those of motor manufacturers and mill applications.

It can perform up to 18 distinctly different tests on encoders with the push of a single key. The results of each test is displayed on an LCD display in different numeric values. The tester will continually update the results, while retaining the minimum and maximum readings until larger values are received. This is helpful in identifying transient problems. The M100 can test all popular incremental encoder configurations.

Nonvolatile memory retains all of the setup information through power downs. This eases operator work load when checking a repetitive number of identical encoders such as on a production line or in a mill environment.

Additional features of the M100 include an RPM count, total turns display, rolling pulse counter, and pulse per second (PPS). All can be used to identify and monitor motor speeds or determine pulse counts of encoders. Included with the M100 system is a standard RIM Tach® or SLIM Tach® digital tachometer connector hood.

Simply snap the hood into place and the M100 is ready to begin testing. An internal compartment

stores a 9V battery for operation where a 110VAC outlet is not convenient. The encoder tester is able to power the encoder as well as itself during parameter testing.

The M100 encoder tester can be easily used by operators with little experience in encoder testing parameters.

FEATURES AND BENEFITS

- 68HC11 microcomputer controlled for accurate, intelligent operation
- 110 VAC line or 9V battery powered
- Accepts encoders ranging in resolutions from 1 to 8,192 pulses per revolution (PPR)
- 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

Fun SignalContinuous display

ctionPulse of high/low signal

State state (A,B,Z)

Comp Display high/low

lemen state of

tary complementary

signals

Pulse Count number of

s Per pulses detected

Seconeach sec-ond (100

d kHz maximum)

Pulse Display a

Count continuous

er bidirectional count

of detected pulses

(10 digits)

Pha QuadrDisplay actual

se ature phase angle ($\pm 1\%$

Phaseaccuracy, derated at

higher speeds)

Min & Detects and holds

Max the extreme

Phasequadrature phase

angle

s

Pulse Continuous update

Duty display ($\pm 1\%$

Cycle accuracy, derated at

higher speeds)

Min & Detects and holds

Max the extreme duty

Duty cycles

RP RPM Calculates RPM

M (100 kHz maximum)

Min & Detects and holds

Max the extreme RPM

RPM (100 kHz maximum)

DirectiDisplays + or - to

on of indicate direction of

Rotati signal input

on

Mar Numb Display number of

ker er of pulses detected

Pulse between markers

s (10,000 PPR max)

Marke Display signal when

r marker is received
Pulse
Prese
nce
Count Detects and
Error displays the number
 of pulse counts
 different from input
 count
Revol Display a
ution continuous
Count bidirectional count
er of revolution (10,000
 revolutions)
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