

TAYLOR ELECTRONIC DESIGNS

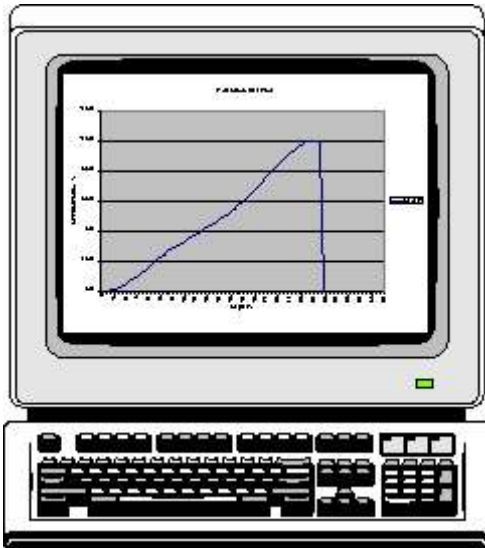
MODEL 8340 LINEARITY TEST SYSTEM

Potentiometers, Rotary Position Sensors, Inclinometers/Tilt Sensors
(Also Proximity Sensors, Slide Pots, Switches, and Spring Testing)

DESCRIPTION:

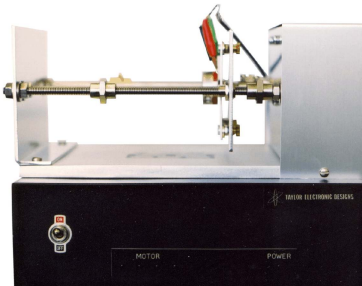
The Taylor model 8340 was developed to test and plot the resistance (voltage ratio) of a wide range of single and dual potentiometers (1-20 turns), rotary position sensors and inclinometers/tilt sensors. This test system is extremely accurate, fast and user friendly. It will plot a typical 300 degree rotation potentiometer in 75 seconds. The test plot will produce a 12bit (1 in 4096 resolution) measurement for every 0.25 degree of rotation. Example: A potentiometer with a rotation of 300 degrees will produce 1200 readings for a single and 2400 for a dual device.

The test sequence and parameters is controlled by the Personal Computer (not included) with the Software provided. The measurement test data can be transferred to any popular spreadsheet, math program or charting program with graphing capabilities (Macro for spreadsheet provided).



Basic System: \$8500.00 CDN
Excluding Taxes, Duty and Shipping.

Free Demo Software Available
Please Email or Call.



FEATURES:

Excellent For Lab, QC And Production Use
Torque Can Be Set From The Host PC
Fast Test Set-Up And User Friendly

Adapters Available For Most Devices
Data Can Be Exported To Most Programs
Compact, Low Power

OPTIONS:

Wiper Contact Resistance And Rheostat Plotting.
Rotary Position Sensor Plotting (DC Voltage).
Inclinometers/Tilt Sensors (AC Voltage).
Vertical Test Platform For Laser/Mechanical Trimming Of Potentiometers.
Faster Test Cycles/ Higher And Lower Resolutions Available.

NEW!

Linear Travel Version For:

Slide Potentiometers, Proximity Sensors.

**TAYLOR ELECTRONIC DESIGNS
MODEL 8340 LINEARITY TEST SYSTEM**

Test System Specifications:

Resistance Range:	50 Ohms to 5 Megohms (minimum ½ watt for 50 Ohms)
Measuring Resolution:	12bit (one in 4096) Better than 0.025% resolution.
Accuracy (Resistance/Ratio):	+/- 0.050% of full scale.
Test Voltage:	5 Volts DC
Test Duration:	75 Seconds (For 300 degree Rotation).
Stepper Motor:	0.25 degrees per step (1440 measurements in 360 degrees).
Torque:	8 to 75 oz-in
Plotting Resolution:	One 12 Bit measurement per 0.25 degree of rotation.
Calibration:	AUTOMATIC.
Test Method:	Ratio metric
Power Requirements:	12VDC @ 1 Amp. (AC Wall Adapter Supplied)
Dimensions:	10" wide x 8" deep x 7" high

Front Panel:

Power Switch:	ON / OFF
Power Indicator:	Red LED
Motor Coil Indicators:	Green LED's (x4)

Rear Panel:

RS232:	Standard 9 pin D type connector. (Computer is connected to test unit via the 6foot 9pin female to 9 pin male shielded cable supplied).
Power Jack:	2.1mm power jack/centre positive 12Vdc @ 1amp.
Test Connector:	XLR 5 pin type socket.

Test Adapter Plates: (metric available)

<u>For 1/8" Shafts:</u>	<u>For ¼" Shafts:</u>
¼" Mounting Bushing Adapter	3/8" Mounting Bushing Adapter

Motor Shaft Coupling: (metric available)

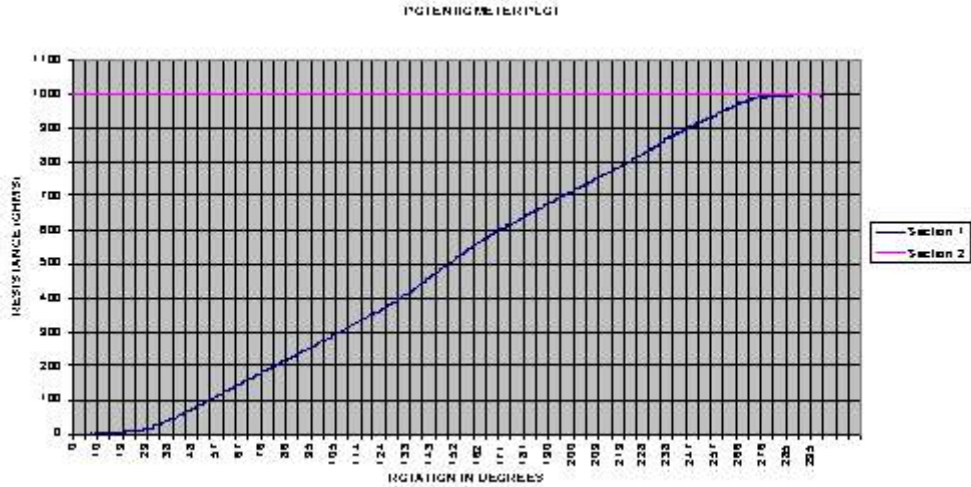
¼" to 1/8" Coupling:	For 1/8" Shafts.
¼" to ¼" Coupling:	For ¼" Shafts and screwdriver attachments.

Test Connectors: Multipurpose or custom connectors can be supplied

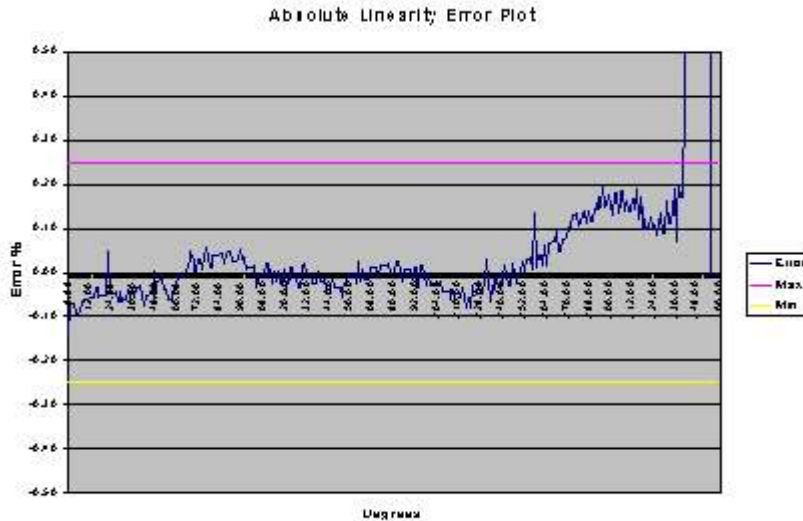
**TAYLOR ELECTRONIC DESIGNS
MODEL 8340 LINEARITY TEST SYSTEM**

Software: Test and Measurement software provided. Graphing software (spreadsheet, math program or charting program) is supplied by customer. Macros for graphs, test sheets and data tables provided by Taylor.

Typical Plot For 1K 2 Watt Carbon Potentiometer



Typical Error Plot For Precision Potentiometer



Contact:
Taylor Electronic Designs
2 Steinway Boulevard Unit 1
Toronto Ontario Canada M9W 6J8

Roy Taylor
Tel: (416) 504-9699
Email: sales@taylorelectronicdesigns.com
Website: www.taylorelectronicdesigns.com

**Specifications And Price Subject To Change Without Notice.
Printed March 2010**