



TAYLOR ELECTRONIC DESIGNS

MODEL 8300 POTENTIOMETER TEST UNIT

DESCRIPTION:

The Taylor model 8300 was developed to test the contact wiper resistance (connectivity), contact noise and provide a fail indication if it exceeds the selected limit. The test unit also measures end resistance with the 3 ½ Digit LCD Display. This test system is accurate, fast and user friendly.



FEATURES:

- * Excellent For Lab, QC And Production Use
- * Fast Test Set-Up And User Friendly
- * Wide Range Of Options Available
- * Adapters Available For Most Potentiometers
- * Compact, Low Power

POTENTIOMETER TEST UNIT SPECIFICATIONS:

Test Method:	Constant Current
Resistance Range:	50 Ohms to 5 Megohms (minimum ½ watt for 50 Ohms)
Test Current:	100mA For 50 Ohms 1uA For 5 Megohms
Maximum Open Circuit Voltage:	+12VDC
3 ½ Digit LCD Display:	Indicates ---> RE (End Resistance) In Ohms (0 - 1999).
Specifications:	
Accuracy:	+/- 0.25% + 1 Digit
Reading Rate:	2.5 Per Second
Display:	Reflective with 0.4" High Digits
Over Range Indication:	
Over range is indicated by "1" displayed in the most significant digit and the blanking of the three least significant digits. Over range will always be indicated when connectivity test is selected.	
End Resistance Test Current:	1.10mA +/- 0.5%

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RW ANALOG METER: 0 - 20%: (+/- 5% of Full Scale Reading)

Indicates Wiper (Contact) Resistance As A Percentage of Total Resistance of Potentiometer.

RT ANALOG METER: 0 - 100%:(+/- 5% of Full Scale Reading)

Indicates Resistance Setting of Potentiometer Under Test And Used For Calibration of Total Resistance Value.

FRONT PANEL:

Power Switch: ON / OFF
Direction Select Switch: CW --- > Clockwise
CCW --- > Counter Clockwise
Test Select Switch: RE ---> End Resistance Test (Minimum Resistance Check)
CONN --- > Connectivity Test
Ohms Control: 50 - 500 Vernier (Fine Adjustment)
Range Switch : Selects Ohms Range X1 to X10K
Fail Lamp: Incandescent (with red lens) replaceable from front panel.
Reset Button: Resets Fail Indicator.

REAR PANEL:

RW Sets Trip Level For Wiper Resistance.
Range: 5% to 20%
EN..... Sets Trip Level For Contact Noise.
Range: 30mV Peak to 250mV Peak (Preset @ 100mV Peak).
RW/BOTH/EN..... Connectivity Selector Switch (Normally Set to "Both").
SCOPE OUTPUT: For External Monitoring Of Noise.

Power and Dimensions:

Power Requirements: Universal AC Adapter Supplied (50 Watts max.).
Dimensions: 11" wide x 12" deep x 5.5" high.

Potentiometer Test Connectors: Multipurpose or custom connectors can be supplied.

Manufactured In Canada:

Taylor Electronic Designs
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Specifications And Price Subject To Change Without Notice.

Printed October 2007