

TESTING THE FUTURE®

VRT-10

VOLTAGE REGULATOR TESTER



DAV
ELECTRONICS
LTD.

Features

- Micro Processor based voltage regulator tester for high measurement accuracy and high volume testing of solid-state voltage regulators.
- Test all types of solid state voltage regulators 6-32V.
- Optional fully automatic pneumatic fixture and connections for high speed testing.
- Voltage regulator can be tested quickly and accurately to ensure it will pass end of the line alternator testing and reduce early failures due to weak regulator components.
- Simulates all alternator signals to the regulator.
- Simulates all car signals including the on-board computer's signals to the alternator & regulator.
- Learning mode with comprehensive Wizard to identify terminals and regulator functions for extremely easy setup of new part number limits and test conditions.
- Verifies terminals & functions such as: COM, LIN, BSS, PWM, Remote Voltage Control, Sense, Ignition, Feedback Signal, AC Energize Circuit, Computer, Field Control, Lamp, Soft Start Delay, Load Response Control, and AC Terminal Output.
- Measures: Voltage Set Point, Secondary Regulation, Fail Safe Voltage, Leakage Current, Instability to load and speed, Over/Under Voltage Indication, Voltage Saturation and checks regulator's diodes.
- Programmable test conditions for: rotor, regulator, transistor and diode test currents, rotor inductance, LIN, BSS & Remote Voltage Control and turn on methods.
- Simulates and tests different lamp sizes and configurations.
- Simulates energizing of alternator for TOS comparison.
- Simulates stator signal corresponding to 1000-6000 RPM.
- Built-in short circuit and reverse polarity protection.
- User configurable Pass and Fail reports and labels.
- Extended testing capabilities via custom test procedures.
- Controls for external reject valve, marking device, and reject bin signal.
- Statistical data recorded to text file via optional PC Measures more than 150 Parameters.



(Pneumatic Fixture Optional)

Technical Data Measured Parameters

Voltage Set Point	6-40 Volts \pm 0.1 Volt	Feedback Voltage	0 to 30 Volts
Leakage Current	0-100mA \pm 0.1mA	120V and 220V Models Available	
Field Switching Frequency	10-10000Hz		
Field Current	up to 10 Amps		
Lamp Voltage	0 to 30 Volts		



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