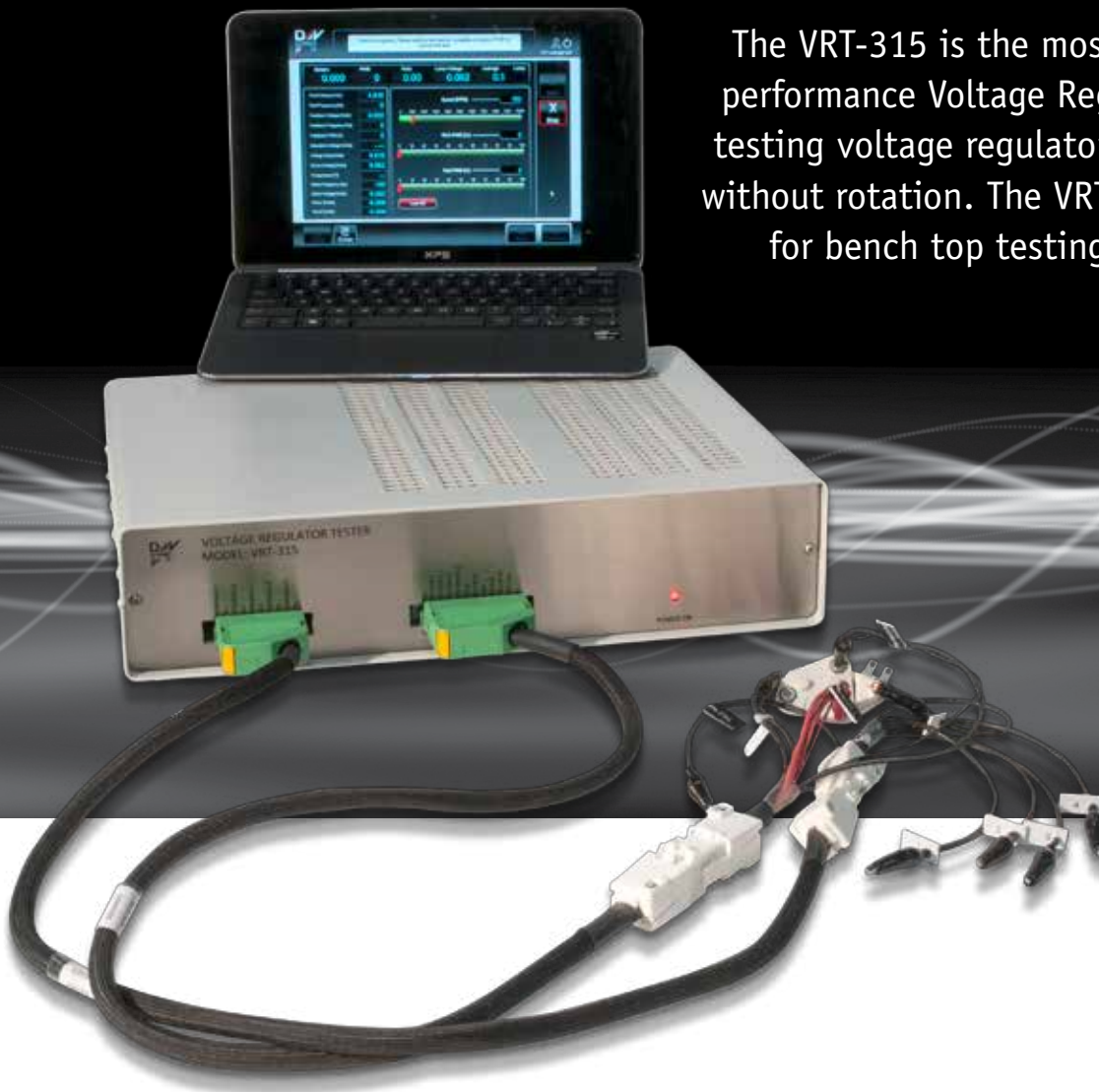


TESTING THE FUTURE®

VRT-315

VOLTAGE REGULATOR/ALTERNATOR TESTER

The VRT-315 is the most advanced high performance Voltage Regulator Tester for testing voltage regulators and alternators without rotation. The VRT-315 is optimized for bench top testing applications.



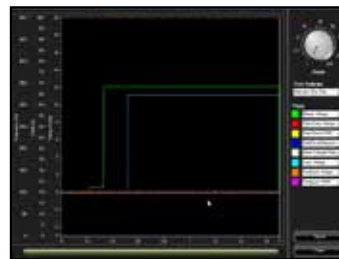
DAV
ELECTRONICS
LTD.

Features:

- Test regulator as a separate device or can also test regulators built-in to an alternator without rotation and can even detect shorted rectifier diodes
- Real-time control and high-resolution measurement of regulator components
- Advanced instrumentation for RLC (Resistance-Inductance-Capacitance) and leakage measurements configurable to measure between any two regulator terminals
- Sophisticated measuring algorithms and powerful data processing techniques, thresholds, ranges and filtering algorithms are fully configurable providing greater flexibility and improved measuring accuracy
- Built-in support for LIN/BSS regulators and alternators with new protocols added via software update
- Programmable RVC (Remote Voltage Control) output for regulators that can be controlled via PWM signal from the engine computer
- Built-in oscilloscope displays all measured and calculated regulator signals including Field Driver Voltage, PWM & Frequency, Feedback Voltage, PWM & Frequency, RVC Voltage, LIN/BSS messages, Field Voltage drop and others
- Precise measurement of Feedback Terminal, also known as DF or DFM terminals
- Performance report printout, labeling and statistical capabilities
- Three stator phase outputs with programmable frequency to simulate alternator rotation
- Kelvin connection method to ensure good electrical connections to regulator or alternator
- Step-by-step setup instructions linked to part number under test
- Flexible scripting engine with more than 40 built-in measuring/control commands
- Multiplexed terminal harness technology can automatically assign all terminal types to the regulator plug terminals

Specifications:

- Measures leakage current with 1 μ Amp resolution for all major components:
 - Regulator Leakage
 - Field Driver Leakage
 - Field Collapse Diode Leakage
 - Lamp Driver Leakage
 - Relay Driver Leakage
 - Sense Terminal Leakage
- Typical 0.05 % measuring accuracy for all voltages
- 12-32 V operating range with up to 12 Amps field current (15 Amps peak) load to power transistor for saturation voltage or voltage drop measurement over all important regulator components:
 - Field Driver (power transistor)
 - Field Collapse Diode
- Lamp simulator with programmable load current up to 2 Amps for Lamp & Relay Driver test
- PC Software Applications include:
 - Database Program for creation/editing test specifications & conditions
 - Measuring Application with Manual/Automatic Regulator or Alternator Test Modes
 - Calibration Program
 - Regulator Learning Mode



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