

## High Cycled Speed Alternator Reliability Tester

### ◆ General Features

- ◇ User defined profile of cycled speed in order to process reliability tests, for example 1 second duration of rise or fall time in 5000 to 18000 RPM speed range,
- ◇ Double or single station alternator reliability test bench,
- ◇ Simulation of vehicle alternator networks with electronic loads and batteries,
- ◇ Full computerized bench control and measurements,
- ◇ Alternator electrical features: 0-300A / 14V, 0-150A / 28V or 0-75A / 42V,
- ◇ Test any kind of above defined alternators and its vehicle control interface by RVC, CAN/LIN.... communications,
- ◇ Operating temperature from  $-45^{\circ}\text{C}$  to  $200^{\circ}\text{C}$ , or from ambient to  $200^{\circ}\text{C}$  or at ambient.

### ◆ Software Features

- ◇ Specific software to control the bench with a friendly Graphic User Interface,
- ◇ Manual mode, controls each bench actuator or respective selected measurement,
- ◇ Calibration mode via user interface,
- ◇ Automatic mode test: write very easily program test procedures,
- ◇ Test duration: user defined, even until alternator fails,
- ◇ Digital and graphical displays measurements,
- ◇ Configurable system record measurements data.

### ◆ Safety Features

- ◇ Hardware emergency stop in case of failure (security chain opened, alternator belt broken, door open..),
- ◇ Configurable alarms and warnings or suspend tests,
- ◇ Suspend mode on alarm event during an automatic test sequence with a user resume command in order to safeguard all data from start of tests



### ◆ General data

Output Voltage	0-50V +/- 0.15%
Output current	0-300A +/- 0.15%
Field Voltage	0-50V +/- 0.15%
Field Current	0-10A +/- 0.1%
Battery Voltage	0-50V +/- 0.15%
Temperature measurements	$-50^{\circ}\text{C}$ to $200^{\circ}\text{C}$
Operating Temperature	Ambient to $150^{\circ}\text{C}$ +/- $5^{\circ}\text{C}$
Rotor Speed	0 up to 22 000 rpm +/- 3rpm
Auxiliary current	0-300A +/- 0.15%

### ◆ Options

Operating Temperature	Ambient from $-50^{\circ}\text{C}$ to $200^{\circ}\text{C}$
Extra auxiliary analog & digital I/O	
Additional temperature measurements	

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