

Starter motor analysis bench

D&V Electronics Ltd

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D&V Electronics has updated its test bench for starter motors, including the graphical interface, which is now more user friendly

Every time a car starts, it is thanks to the rigorous testing during the development of a new starter motor. For years, D&V Electronics has been innovating the testing equipment for motors and generators, including a line of products dedicated to testing the starter motor. Now D&V has redesigned and updated its successful ST-64 starter motor analysis bench to the new ST-64 G2 with new features that provide wide-ranging benefits for starter motor development teams. The graphical interface has been updated with user-configurable displays and a wide range of virtual instruments. The data acquisition has been improved to a blistering 200,000 samples/sec for all important channels. In addition, the tester control has been redesigned for stop/start and change-of-mind (CoM) starters.

When testing, users want to see the data and analyses that are important to the specific purpose. D&V Electronics ST-64 G2 has developed a user-configurable graphic interface that allows the user a new level of versatility. With an open editing mode, users can choose the data to be displayed and how it is displayed, stored and retrieved. If a user wants torque, speed, voltage and current in the same corner of the screen, and to have a digital oscilloscope open while



displaying other critical data, it is easily done with the new interface. Text size, color, parameters and positioning are all accessible in manual control for ST-64G2 users to configure. There are also password protections and user hierarchies available to allow different interfaces for different technical levels.

D&V has increased the sampling rate and resolution with a new 16-bit data acquisition measuring board and fast data, and can now sample more than 200,000 samples per second. There is more technical detail than ever available to observe the intricacies of the starter motor. This enables users to control the recording sample rate so they can control file size, while the live digital oscilloscope displays full fast data.

ABOVE: The improved ST-64 G2 bench for testing all types of starter motors

BELOW: Screenshots show the updated flexible software interface



There are a lot of changes in emissions standards that are driving the development of the starter motor. Stop/start is one of these – D&V has designed the ST-64G2 to prepare its users for the future and is fully capable of testing tandem/dual solenoid starters, stop/start starters and CoM starter motors.

D&V's new ST-64G2 comes with: open channels for new sensors; a camera to observe pinion engagement; new motor controls; and an improved mechanical configuration. The improved motor in line with the driveline provides improved motor control, while an in-line torque sensor provides high accuracy measurement of the driveline torque and provides feedback for any torque limiting control. ◀