

NEWS RELEASE

Automation Technology Inc. of Dayton, Ohio introduces the new ETS-3800 Encoder Test System. The ETS-3800 provides a comprehensive performance test of Incremental Encoders having up to 12,500 cpst (cycles per shaft turn). With sampling rates up to 1000 cycles per second, typical test time for a 1000 cpst encoder is less than 4 seconds. Tests conducted by the ETS-3800 include: direction of rotation, number of A pulses and B pulses in one shaft revolution, mean, minimum and maximum duty cycle for all A pulses and also B pulses in one shaft revolution, mean, minimum, and maximum phase shift between the A and B pulses, duty cycle of Z, phase shift falling A to Z and phase shift falling B to Z. At the conclusion of a test, if the operator chooses they can view or print a graph of angle vs. position for A duty, B duty and phase A to B.

Operator entered limits can be set for all of the tests conducted. These limits are stored in Model files. The system is capable of storing thousands of model files that can be recalled easily by selecting them from a drop down box. Measured test data is displayed and compared to the operator-entered limits to determine test acceptance. If the encoder passes all tests a green light is illuminated indicating the encoder has passed. If the encoder fails any of the tests conducted, a red light is illuminated and an alarm sounded to indicate a failure. Test data for the failed tests are displayed in red on the system monitor. Once the test is complete, test data is stored on the system hard drive. Stored test results can be evaluated using the included "Results Management" software. This software allows the user to select specific test results (by date, time, shift, etc.) for statistical analysis.