CAN Newsletter Online

DIAGNOSTIC DEVICE

CAN FD diagnosis to go

With this version of the PCAN-Diag FD, Peak-System launches a mobile solution for the analysis and error diagnosis of CAN and CAN FD networks.

The handheld tool diagnoses the CAN FD protocol and the physical level. It enables symbolic representations of incoming messages. It also can record them and play them back. Additionally, the tool can measure the busload as well as the termination resistance. The integrated oscilloscope specially designed for CAN allows an examination of individual CAN frames. By saving data and images, additional evaluations can be carried out subsequently. Compared to the previous version, Peak-System has improved the size and resolution of the display as well as the device handling. In addition to the rotary button, four configurable hotkeys provide access to various functions.

The tool is able to measure the busload and the termination resistance (Photo: Peak-System)

With USB-C and Micro-HDMI the interface options were improved. The latter is used for display output on an external monitor or beamer, which makes the device suitable for presentations and training sessions. The PCAN-Diag FD has internal rechargeable batteries and can be recharged with the power supply or the optional charging station with quick-charge function. Via projects the device can be preconfigured for different CAN networks and allows an analysis in small and extensive areas, said the company. With the PCAN-Diag FD, engineers and service technicians from the fields of vehicle, aircraft, machine, and plant construction or automation have a mobile alternative to a computer with a CAN interface. The product comes with a display of 800 x 480 pixel resolution.

The oscilloscope function is used for a qualitative assessment of the signal course on the CAN bus. Two independent measuring channels sample both lines CAN-High and CAN-Low with up to 100 MHz. Based on the signal course, the PCAN-Diag FD decodes CAN frames and shows their elements in the scope graphics. The product comes with a CAN connection via D-Sub, 9-pin (in accordance to CiA 303-1).

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