IPETRONIK

Press release

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Measurement data logging software IPEmotion 2017 R1 –
vehicle acoustics, bus analysis and CAETEC hardware integration

With IPEmotion 2017 R1, IPETRONIK offers an updated version of its measurement data logging software. The new release focuses on the further development of acoustics and online/offline vehicle bus analysis as well as on the integration of CAETEC hardware.

Acoustics

The acoustic module developed for testing the vehicle acoustics has been extended to include new evaluation functions such as root-mean-square value, peak-to-peak, dbB and dbC. Furthermore, new analysis operations allow the overall level to be calculated as well as the configuration of order analysis and filters with adjustable bandwidth. In addition, direct audio output is possible via the Campbell diagram. This allows users to listen to the recorded measurement data instantly, which in turn makes judgement of the quality and any further analyses possible.

Bus and traffic analysis

The vehicle bus analysis can be performed online and offline with the Traffic Analyzer instrument. The filtering for specific CAN IDs or CAN ID ranges is particularly helpful for a practical application. The online measurement for CAN and CAN FD messages allows acceptance filters to be configured. Complex filter ranges can also be defined conveniently via DBC description files. FlexRay traffic can be converted into signals via Fibex and Autosar description files during online and offline traffic analysis. The filtering of FlexRay and LIN traffic messages is planned for the next release stage IPEmotion 2017 R2.

Integration of the CAETEC hardware

The first integration step with release 2017 R1 sees the product lines of IPETRONIK and CAETEC merging. With the new ETH gateway CLFD box, the company has a highly compact and multi-channel interface module, whose 16 CAN high-speed inputs, two FlexRay, eight LIN and four DIO channels can be connected to IPEmotion. An Ethernet connection to the PC permits – via corresponding description file imports (e.g. OBD, DBC, Aurosar, A2L, Fibex) – the implementation of multi-channel CAN, LIN, FlexRay traffic and signal-based measurements.

ARCOS 1.5 – modular data logger with Linux and Windows operating systems for IPEmotion

The system integration of the CAETEC and IPETRONIK product lines places special focus on the ARCOS 1.5 data logger with two operating systems. For classic logger operation, the system is configured with either a 32 or 64 bit Linux operating system and dataLog/Phoenix software. The MDF4 measurement data generated can be imported into IPEmotion and the IPEcloud and evaluated.

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For applications that envisage measurements with gateway operation on a notebook, it is worthwhile installing the Windows operating system with IPEmotion. This allows test engineers to use all the plug-ins installed on the ARCOS and to view the corresponding online measurement data on their notebooks using the IPEmotion software. Besides CAN, LIN, FlexRay traffic and protocol measurement data, this also includes the data of integrated USB and IP cameras. Furthermore, the CLFD box is integrated into IPEmotion via the protocol plug-in so as to allow identical physical bus interfaces to be used in logger and gateway operation.

About IPETRONIK

IPETRONIK GmbH & Co. KG is a globally operating company for mobile measurement technologies, DAQ software, engineering services and test bench technology for the automotive industry. The combination of these strategically interrelated business divisions is unique to today's market. Since the company's founding in 1989, OEMs and Tier 1 suppliers have relied on the high quality, reliability and precision of IPETRONIK products and services to meet demanding research, development and testing requirements in automotive and numerous other industrial applications. The innovative hardware/software solutions and test bench technology are developed and produced in Germany. A worldwide distribution network and its own subsidiaries for example in India, Sweden and North America ensure global distribution with local support. IPETRONIK is owned by INDUS Holding AG.

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