

New data logger for cost-sensitive fleet applications



19th June 2009 - With FLEETlog and FLEETlog WAN, IPETRONIK, the world's leading manufacturer of mobile measurement equipment in the automotive industry, offers two intelligent data loggers for continuous mobile operation in road trials and in fleet management. Each of the data loggers has four electrically isolated CAN-bus inputs as defined in ISO 11898-2 for acquisition of vehicle data and/or sensor signals via CAN measurement modules. The loggers acquire the data, process it online, and store it on an exchangeable CompactFlash card for further processing. Different memory groups and trigger conditions can be defined for this purpose. The CAN protocols that are optionally available are CCP, XCPonCAN, KWOnCAN, UDS and GMLAN. Data transfer is carried out via USB, LAN or, in the case of FLEETlog WAN, via wireless link. The latter supports wireless transmission of measurement data both via WLAN 802.11b/g and via EDGE/GSM 850/900/1800/1900 MHz and UMTS/HSDPA 850/1900/2100 MHz. The FLEETlog WAN has an integrated GPS module for satellite localisation. In addition, it offers a voltage-failure bridge and a fallback mechanism that automatically buffers the data in the logger in the case of temporary interference on the link, and repeats the transmission at a lower transfer rate.

The data loggers are based on a fast, 500 MHz LX800 CPU, have 256 MB of RAM, and use the real-time operating system RTOS-32 with the TESTdrive acquisition software that has been proven in the M-LOG. Further features are two USB 2.0 interfaces, two digital inputs and two digital outputs, with intelligent power management via the WakeonCAN function. All settings of the measurement configuration can be made conveniently via the Windows IPEmotion software. Using the XCP service and CANsend options, the user can output measurement data online via CAN and Ethernet, and can use LOG2PC to exchange and visualise measurement and configuration data via LAN, configure data acquisition online, and carry out remote start-stop of measurement via the PC.

FLEETlog and FLEETlog WAN are housed in a powder-coated, IP30-fused aluminium shell casing measuring 141 mm x 37 mm x 180 mm (W x H x D). The operating elements and plug-in modules, such as SIM card or CompactFlash, are hidden behind a protective flap. The housing has no rotating mechanical parts, such as fans or hard discs. The loggers function in a temperature range of -20 °C to +70 °C. The power supply

requires a voltage of 9 to 36 V DC. The power consumption is typically around 8 Watts.

Andreas Geh, Director of Sales & Marketing at IPETRONIK, says, “With FLEETlog and FLEETlog WAN, IPETRONIK offers two new data loggers for the specific requirements of road trials and fleet management. We have invested out years of development experience in these two loggers to make mobile measurement-data acquisition even more efficient. With FLEETlog, users can further optimise the costs of their fleet projects, while retaining proven IPETRONIK quality.”

About IPETRONIK

Since its founding in 1983, IPETRONIK GmbH & Co.KG has had a significant technological impact in the automotive mobile measurement field. Today IPETRONIK is one of the world’s leading companies in this sector. For years, car manufacturers have relied on the high dependability, precision, and availability of IPETRONIK products and services. The comprehensive portfolio of measurement modules, data loggers, sensors and software are not matched by other companies in this field. IPETRONIK is known for high precision modular measuring equipment, and expertise in analog measurement technology. This expertise includes in depth knowledge of automotive data busses, automotive data bus communication protocols, and automotive control units. IPETRONIK is the technology partner of the automotive industry, through continuous expansion of the Consulting/Engineering division for vehicle test equipment. This includes general testing and on, as well as, off road test runs, with an emphasis on vehicle air-conditioning and thermal management. At the Baden-Baden headquarters, about 100 employees are dedicated to develop innovative solutions that are produced in Germany. IPETRONIK backs up its claim of global sales and support with local customer care through its own subsidiaries and branch offices in France, Sweden and the USA, and with a growing, worldwide distribution network.