



Case Study

Rugged Data Logger Endures Tough 24h Race



The Customer

With a history of producing 2.6 million transmissions, the GETRAG Corporate Group is one of the largest transmission manufacturers in the world. In 2008, the company successfully launched the GETRAG PowerShift® dual-clutch transmission on the market, which is installed in such cars as the Mitsubishi Lancer Evolution X.

The Challenge

Reliable acquisition and quick evaluation of measured data in a challenging car racing application

The objective was to put the GETRAG PowerShift® transmission to the test in a Mitsubishi Lancer Evolution X during the ADAC Zurich 24h car race to evaluate its durability and racing performance. Six different CAN control modules were used to reliably and quickly log measured data throughout the race for performance analysis.

The Solution

The rugged GL1000 fleet logger

The GL1000 was used as an autonomously operating test instrument, which proved to be rugged, and reliable in processing all trouble-free measured data. This demonstrated that the GL1000 operates flawlessly, even in a tough car racing environment that places especially severe demands on mechanical toughness. Because of its toughness and ease of configuration, the logger fully satisfied all of the requirements placed on it.

The Advantages

A compact device reliably acquires all required bus and measured data

- ▶ All bus data is acquired from the CAN channels. In addition, the user may choose to have the measured data logged over the current CAN protocols CCP or XCP.
- ▶ Measurement signal lists are individually configurable
- ▶ The rugged design and strong aluminum housing protect the device when used in challenging environments.
- ▶ Parallel logging of GPS data
- ▶ Data exchange is simple and fast, even during bus operation; data is exchanged by SD card with an easy-to-access card slot.
- ▶ Offline evaluations are possible with any tool, without requiring connection to the data logger.

