CAN-based Data Acquisition: The MiniModules of CSM

The measurement modules of the CSM MiniModule family solve extreme and combine competing demands on automotive measurement technology. Developed for use inside engine compartment, they are designed for extreme temperature and environmental conditions and are very compact. All CSM MiniModules have excellent specifications and a very good price-performance ratio.

The products are:

- Thermo-scan
- AD-scan
- PT-scan
- CNT-scan
- UniCAN

Whether it's on the test stand, during load trials, calibration, endurance tests or in the wind tunnel: comprehensive measurements are required during the entire process of vehicle development. Typically, these include numerous temperature measurements around the engine or HVAC system and a large number of pressure measurements. On-board and switching voltages, frequencies and speeds must also be recorded.

The MiniModules from CSM offer measurement technology of the highest quality for all of these data acquisition tasks. It is versatile equipment that provides reliable measurement results even in the toughest environments.

Convincing features:

- Designed for use in extreme environments, e.g. in the engine compartment
- CAN bus for a reliable, decentralized cabling. Short connection cables to sensors reduce line interferences and set-up times
- Extremely compact dimensions for installation even for locations with very limited space
- Each channel is galvanically isolated
- Cold junction compensation for thermal channels per channel for highest measurement precision
- Unmatched low power consumption
- High-performance software tool for easy configuration
- INCO AddOn for configuration directly in ETAS INCA
- Configuration data is saved in the module and in a CANdB signal database for fast reconfiguration
- Supports all current DAQ and application software as well as data loggers for cross-division applications
- Excellent price-performance ratio