Application Notes...

CANbus remote control

All mobile plants these days have on-board computers. Combined with mobile phone and wireless technology, vehicle systems can be monitored, interrogated and investigated by manufacturers and operators

Brief given

When a leading engine manufacturer wanted to implement remote servicing functionality, it contacted Sensor-Technik. The requirement was for a 'black box' solution that would collect engine data and transmit it back to the head office, so that any problems could be identified remotely.

A service engineer would identify whether the fault was mechanical, software, abuse of the machine, or some combination of faults, and quickly rectify the problem with a software update or the delivery of new parts. Sensor-Technik was given a full description of what information needed to be collected and how the engine manfuacturer wanted it presented.

The solution

An STW C2C CANbus module with multiple remote comms facilities and data logging functionality provided direct connection to the on-board CANbus system.

Freely programmable, the module could be set up to meet the exact customer requirements.

Implementation

Sensor-Technik supplied the hardware with the software embedded. The engine manufacturer performed its own installation and was able to easily tailor the software to meet its own needs.

Conclusion

This project proved to be the tip of a very large iceberg, as Sensor-Technik identified a host of industries that could benefit from remote monitoring of vehicles and a number of different people within the chain who could use such information. These include engine suppliers, gearbox suppliers, vehicle owners, service agents and leasing companies. All needs can be met with the same hardware simply by providing different users with different passwords and access levels.

Sensor-Technik

The UK's CANbus specialist

Making the move to a bus-based control system is a big step, but it needn't be a difficult one. Whether you require fully-approved components with a track record, or complete system design, Sensor-Technik has the answer. And we'll be with you every step of the way.

CANbus provides the ideal system for integrating electronic controls into vehicles and machinery, particularly because it's a system which is to ISO standard and which is supported by so many different manufacturers.

RTS

Reigger Telemetrie Systeme (RTS) has developed a range of innovative telemetry systems for the agricultural market, enabling remote diagnostics and maintenance, data acquisition, fleet management and theft protection. RTS products are CAN-based systems, built around STW's ESX-C2C CAN controller and teleservice communications module. Systems collect data from both office and machinery, and transmit it to a central PC over GSM or Bluetooth. GPS is also employed for vehicle position monitoring and site mapping.

MoDaSys

Under EU Directive 178/2002, farmers are required to record all production data. The RTS MoDaSys data logging system helps to fulfil this task, simply and cost-effectively. MoDaSys monitors the machinery functions, plus machine data such as engine speed, vehicle speed and idle time, presenting the data as real-time graphs or daily overviews. MoDaSys also monitors area covered, distance covered and the route travelled, as well as detailing the hours of work. MoDaSys transfers data wirelessly via Bluetooth or GSM.

Supplied complete with comprehensive agricultural software, MoDaSys is the essential tool for farm managers or fleet management service partners.

Sensor-Technik UK Ltd

Unit 10, The Granary
Mill Road, Sharnbrook
Bedfordshire MK44 1NN

Tel: 01234 782049
Fax: 01234 782056
sales@sensor-technik.co.uk
www.sensor-technik.co.uk