

Application Notes...



Multi-purpose vehicles

A special vehicle used for off-road maintenance and service required a more stable and reliable remote control box than had been supplied by the manufacturer.

Brief given

A control solution was required that offered both in-cab and remote operation. It needed to provide gentle but firm control of the on-board hydraulically actuated winch, as well as offering start/stop control of the vehicle's engine and the facility to set the engine speed. An emergency stop function was also required.

The solution

Recognising the need for the vehicle to be used in all weather conditions and in dirty or dusty environments, Sensor-Technik placed the emphasis on developing a robust and reliable solution. A remote unit interfaces to the onboard CANbus system for the engine control and provides a rugged joystick for direct control of the hydraulic valve.

Implementation

Sensor-Technik obtained the required information on the engine's CANBus system from the service manual and obtained the

specifications and part numbers of the hydraulic valves. With this information and working with the original manufacturer's remote control box, Sensor-Technik was able to develop a vastly improved solution which, when returned to the customer, could be simply reconnected to the vehicle and run immediately without the need for further adjustments or corrections.

Conclusion

If an existing control unit is not providing the required functionality, Sensor-Technik has the ability to modify it. Taking a system-wide approach, Sensor-Technik can quickly develop a vastly superior solution that combines user-friendly installation with the exact facilities and levels of control required by the operator.

Sensor-Technik

Complete solutions

Sensor-Technik is fully able to meet your systems needs, by offering a unique product design and manufacture facility to build up complete sub-assemblies where necessary, from development of specifications to delivery of the finished product, guaranteed to offer performance and reliability in even the toughest of environments.

With our in-house design capabilities, the resources of our own machining facilities, decades of applications experience and approvals from the likes of the Ministry of Defence and NATO, we can tailor a standard product to meet your exact requirements.

The UK's CANbus specialist

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.

Sensor-Technik is the UK's foremost CANbus specialist. Our ESX controller and its variants have been widely specified for use in vehicles and machinery. This proven, reliable system has found applications in engine management, 2- and 4-wheel steering, drive-by-wire systems, anti-lock braking, anti-slip regulation, automatic gear shifting and hydraulic control of mobile machinery.

Sensor-Technik can also provide all the relevant accessories, from operator interfaces to the complete control system and interface package. Most importantly, with Sensor-Technik you can specify standard, fully approved and tested products which will save you having to obtain many approvals yourself.

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