

## Application Notes...



# Winch vehicles

The leading electricity suppliers required a vehicle with a powerful winch in order to move the characteristically heavy duty cables

### Brief given

The vehicle needed to be equipped with a central control box as well as a remote unit for controlling the winch. As well as offering simple control of pay-in and pay-out of the cables, the system also had to control the force according to the type of cable.

The system needed to be both rugged and robust since the vehicles are used in all weather conditions and in a wide range of temperatures. Further, operation of the vehicles is characterised by alternating long periods of standing and long periods of hard use.

### The solution

Sensor-Technik developed a robust and rugged system, rejecting delicate PLCs or computers in favour of simple, high state control components plus standalone amplifiers and sensors. The control interface employed large buttons and a clear display,

making the system easy to use, even under the coldest or wettest conditions.

### Implementation

After working out all the signals and determining exactly how the operator wanted to use the equipment, Sensor-Technik first made and tested a prototype. Sensor-Technik then developed the concept into a range of standalone modules with simple cabling, with an emphasis on making field maintenance as simple as possible.

Sensor-Technik not only developed the control system, it also installed and commissioned the complete system.

### Conclusion

All of the customer's requirements for an easy to use, robust, reliable design were met through the development of simple modules and the use of standard components.

# 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.

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