

Application Notes...



Hydraulic power pack control

A big hydraulic power pack needed to be wired to provide control of all valves and the engine, both via the existing computer system and through manual switch control as a back-up. Further, a remote control unit was also required.

Brief given

Sensor-Technik was asked to develop the main controller and the remote, working with no more than a sketch of the system, a diagram of what inputs the computer system required, a list of the various valves and sensors being used and a description of how the operator envisaged the system working.

The solution

With a 24V DC voltage supply fixed, Sensor-Technik selected appropriate switches, joysticks, lamps and relay logic components to provide the required functions and interlocks.

The manual control signal paths were then run parallel with the computer system control pathways, with the operator given the option of computer or manual, local control. The remote control box for the engine was developed to provide parallel operation with

the main control panel, giving the operator the ability to adjust the engine speed, start/stop the engine and check the fuel and oil levels.

Implementation

Sensor-Technik built up the controller and remote unit at its own workshops. At the customer's site, Sensor-Technik then performed a full electrical installation and commissioning of the equipment

Conclusion

Whilst the reliability of the computer control system was not in question, the customer now has the reassurance of back-up by full manual control, including the possibility of remote operation.

Sensor-Technik

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