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Windows interface for remote controllers

Swedish radio remote control manufacturer Datek has developed a Windows interface for its complete line of receivers. This makes it possible for customers to combine Profibus, CANopen or relay outputs with a PC interface in the same wireless system. For some special applications where there is no need for other communication, the PC interface can be used as stand-alone.

While crane functions and other safety-critical control functions should not be controlled over the PC interface since Windows doesn't fulfil valid safety standards, the PC interface can be used to enter data into customer specific OEM software programmes. Examples of such data can be weights, logistics information, work report numbers. The interface can also be used for educational purposes, such as controlling crane simulators from a proper transmitter instead of having to use gaming joysticks.

The customer sets up the interface through a Windows DLL (Dynamic Link Library) file provided by Datek. This offers great flexibility to setup the system as they wish. The installation is not plug & play and does require Windows programming knowledge on the part of the customer.



The Windows compatible remote control receiver.

Heavy duty conduit for cold climates

Adaptaflex has introduced a Type PF non-metallic, flexible conduit system for cables running in high wear or exposed locations. The company specialises in providing various types of conduit to the rail industry. The mechanical properties of the new Type PF make it particularly suitable for both external and internal dynamic use where low temperatures are frequently encountered.

Type PF has an operational temperature range of -50°C to 110°C and, combined with its flexibility and high impact resistance, offers optimum cable protection in low temperature applications such as those encountered on docksidescranes and other exposed areas.

The new conduit is based on a flame retarded Polyamide 12 material. It is self-extinguishing and heat stabilised, passing all flammability, smoke and toxicity performance

tests UL94, ISO 4589, CEI11170 and NFF16-101 with an I3, F1 rating. Additionally full conformance mechanical tests have been met within the conduit standard IEC 61386.

In developing Type PF, Adaptaflex worked closely with material suppliers to evaluate and test various compounds in order to find the most suitable combination.

"New developments in material technology has meant we have been able not only to meet our



C&a

innovations

New software for welding optimisation

SSAB the producer of the high tensile steels, widely used in crane and aerial lift booms, has introduced WeldCalc 2.0, a new version of its high-tech software for calculation and presentation of welding recommendations.

The desired mechanical properties and different plate materials involved in a given joint are input by the user. Based on this information a "tolerance box" is calculated, showing the allowed span of heat input and preheat/interpass temperature. The new version of the software also allows the user to save or export the results. The next time a welder logs in the case can be opened, edited and saved again. WeldCalc 2.0 is web based and constantly updated.

"With WeldCalc 2.0 the user can choose the properties most important in a given welded construction. For example, whether to prioritise optimum welding strength or optimum production efficiency," says Daniel Stemne, project manager for WeldCalc 2.0.



Heavy duty conduit for cold climates

own exacting standards, but also to meet the requirements of the market by offering a solution that covers the required fire performance for both interior and exterior low temperature applications," said Meirion Buck, technical manager at Adaptaflex.

Adaptaflex Type PF conduit is available in standard and heavyweight options and the new range comes in a variety of nominal conduit sizes from 10 to 54 mm. It is designed for use with Adaptaflex ATS fittings that are single piece and

easy to use providing IP66, IP67, IP68 (4 bar 30 mins) and IP69k (DIN40050) ingress protection. Externally braided systems with tinned copper and stainless steel options are available on request.



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