



→ Quality, flexibility and innovation – these values determine all processes at Fronius International GmbH in Austria. Also, it is their recipe for success which has made them the world leader in manual or automated welding applications technologies. State of the art processes with user-friendly operation and solutions are used that are optimized for each application.

Robots “talk” to Fronius via the KL6021 Communication Terminal



Thomas Eder, robot product manager at Fronius.

Fronius is a complete supplier specializing in the robotics sector and is therefore responsible for the precise interaction between the Fronius components (such as current source, welding torch, remote control, feed) and the robot control. “Flexibility and user-friendliness in synergy with the welding system/robot were a priority for us right from the start,” says Thomas Eder, robot product manager at Fronius.

For communication tasks, Fronius relies on the flexibility of the Beckhoff Bus Terminal system. The KL6021 Bus Terminal with serial RS422/485 interface form the gateway between robot and fieldbus system. The protocol developed by Fronius is transferred to the Terminal Bus protocol and to further protocols through signal openness. The integration of a new robot into the complete system is therefore possible by simply exchanging a module. All common robot bus systems (such

as Profibus, Interbus, DeviceNet, CANopen) are covered – “All systems that are also supported by Beckhoff,” smiles Eder. Cases of “Doesn’t fit!” are therefore unknown.

Beckhoff Austria was very open for these adaptations and the associated training that was required. This enabled a perfect solution to be found for the current system integration according to the requirements of the customer.

Fronius’ customers include globally active and internationally renowned companies, mainly from the automotive, ship building, railway vehicle construction and plant & vessel construction industries as well as the offshore sector, who expect optimum velocity and quality for their robot applications.

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