A Wireless Addition for the JUMO Automation System

The new sophisticated entry-level model – JUMO variTRON 300

JUMO variTRON 300 provides users with a smart solution for simple automation applications. The device is based on the JUMO JUPITER platform. As a result, JUMO variTRON 300 uses a large number of features from this high-quality embedded system.

JUMO variTRON 300 is based on a powerful CPU with an 800 MHz single-core processor. The software has a modular structure based on a Linux platform and uses the CODESYS V3.5 programming environment SP16. Another special feature is a customer-specific configuration and process data editor. In addition, individual applications can be created using the modern programming environment Node-RED.

The central processing unit has 1 USB host, 2 Ethernet interfaces, and 1 RS485 connection as connection options. Up to 32 wireless JUMO Wtrans sensors can be connected via a wireless gateway for various purposes including measuring temperature or pressure.

A large selection of connection modules with high-quality, configurable analog inputs and reliable, independent PID controllers with a autotuning function can be connected using a specially developed 1-port router. Displays in various formats are available for visualization.

The intuitive evaluation and visualization of process data from the JUMO variTRON 300 automation system is possible with the browser-based software solution JUMO smartWARE Evaluation. Individual dashboards allow targeted and fast access to recorded process data. Manipulation detection based on digital certificates ensures high data security.

JUMO provides visualization libraries for individual customer-specific operation via CODESYS Remote TargetVisu or CODESYS WebVisu. A high degree of flexibility is also

guaranteed by the integration of all important fieldbus systems via CODESYS (such as Modbus RTU or TCP master and slave, PROFINET IO controller, EtherCAT master, and OPC UA server).

Photo: JUMO

Image caption: The JUMO variTRON 300 central processing unit offers extensive automation possibilities in a compact housing.