CU100

The intelligent controller

Powerful Controller designed for smart distributed control.

TECHNICAL SPECIFICATION CU100

Digital Inputs	4x 24 V
Digital Outputs	4x 24 V (max. 400 mA when supplied via AUX IN)
Ethernet	3x (2x switched, 1x direct; 10/100 Base TX)
Other Bus Systems	EnOcean, SMI, M-Bus, EtherCAT, Modbus TCP
RS232	1x RS232, max. 19200 Bit/s, flow control via XON / XOFF possible
RS485	2x RS485, halfduplex, max. 19200 Bit/s, galvanically isolated, 120 Ω termination via microswitch , 24 V-supply for external gateways (max. 100 mA)
CAN	1x CAN 2.0B, max. 500 kBit/s, galvanically isolated, 120 Ω termination via microswitch
Voltage Supply	Through CAB Bus
Housing Shape	REG (acc. to DIN 43880)
Housing Width	6 PU
Operating Conditions	Ambient temperature during operation: 0°C... +50°C Storage temperature: -25°C ... +60°C
Protection Class	IP20

SCOPE OF CU100:

- The CU100 Control Unit Building comes with a powerful processing unit and works reliably with even most complex control tasks. Several CU100 controls represent a decentralized automation network when combined with other smart components. The CU100 is equipped with a runtime system acc. to IEC 61499 which makes it fit for distributed systems.
- Using the B-studio engineering software, users can plan and program complete distributed systems. Software libraries help reduce complexity and render engineering a fast and reliable process.
- The CU100 offers 24V input and outputs. Besides, it is equipped with two RS485, one CAN and one RS232 interface. This also implies connectivity to EnOcean, SMI and M-Bus gateways.
- Two switched Ethernet ports ensure communication within the distributed control system and with SCADA systems. This allows a daisy chain to form with other components participating in the automation network. Another Ethernet port is available for communications including MODBUS TCP or EtherCAT.

EASY INSTALLATION THANKS TO CLIP-ON ELECTRONIC COMPONENTS:

- All bus systems are fully integrated into the B-Studio engineering software, no matter whether built in or connected through gateway.
- The module is divided into two sections. The bottom section is the terminal module. It accommodates all plug-and-socket connectors required for connecting wires and field buses. The top section accommodates the electronic components. This way of splitting the module offers a variety of benefits. The electronic section can be plugged onto the terminal module in a separate step. The wiring does not need to be disconnected, not even for service measures or replacement of the device. Installation into the equipment cabinet has become easier due to the added space available. The electronic modules can be tested in the office while the terminal modules are already being installed.
- All terminal modules are interconnected through the CAB Bus. Thanks to a jumper, this happens automatically as they are clipped onto the DIN rail. The modules are addressed fully automatically, with no need of configuration.