

Kuhnke CIO Controller

Control Technology

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Embedded compact controller

The Kuhnke CIO Controller is a μ Controller based controller for machine and apparatus engineering. The integrated interfaces are designed for devices with power supply and complex control tasks. The programming is in C / C ++, the "Kuhnke I/O API" allows simple use of existing interfaces and integrated I/Os.

The μSD card allows the local storage of process data and the exchange of control programs.

The compact control for the DIN rail works as CAN master and can be networked with other bus users. The embedded compact controller can be expanded with a 7 "or 5" display with touch functionality.

The GUI / HMI is generated, e.g. with the embedded wizard.



- Compact controller with CAN master functionality
- Special functions:
 - Relay, phase monitor, phase failure monitoring, analog I/Os
- Real time clock
- Operation and visualization via 5" or 7" touch screen



| Technical data | |
|---------------------------|---|
| Туре | Kuhnke CIO Controller |
| Display size / Resolution | TFT with touch functionality, remote mounting, 7" / 800 x 480 (WVGA); 5" / 480 x 272 |
| Integrated I/Os | 8 x DI: input delay: 3 ms 8 x DO relays (7 x NO, 1 x CO) 4 AI U, 0+10 V, 12 bit; 4 AI I, 0/420 mA / 12 bit 1 x AO-U 0 10 V, 12 bit, max. 1 mA; 1 x AO-I 0 20 mA, 12 bit 2 AI (Pt1000/Pt100) |
| Special functions | Phase sequence control, power failure (100 VAC 600 VAC) Indirect phase current measurement (0 100 mA for current transformer) Real time clock, (RTC), µSD-Slot |
| Interfaces | 1 x Ethernet 10/100Mbit; 1 x RS-485; 1 x RS-232; 1 x CAN galvanically isolated |
| Processor | STM32F7 (ARM® Cortex®-M7 core), 216MHz |
| Software | high-level language programming (C/C++), I/O API, HMI via embedded Wizard |
| RAM / Non-volatile memory | RAM: 32 MB, 4 kB remanent memory |
| Drives | Flash: 64 MB, 1x μSD-Card-slot |
| Housing technology | Switch cabinet module for the DIN rail, aluminum tray with stainless steel cover Display: IP 65, aluminum front panel with insert film |
| Dimensions (W x H x D) | 206 mm x 105 mm x 57 mm (Without plugs) |

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