

RT 450.42

PLC module with software



Learning objectives/experiments

- functional range of a PLC
- programming a PLC using included programming software
- electrical connections and signal links
- Ethernet communication

Specification

- [1] module for exercises using a programmable logic controller (PLC)
- [2] PLC programming software for programming on computer
- [3] programming languages: Function Block Diagram (FBD), Ladder Diagram (LD), Structured Text (ST), Sequential Function Chart (SFC)
- [4] communication protocol Modbus TCP

Technical data

PLC

- 8 digital inputs
- 10 analog inputs: 4...20mA
- 8 digital outputs
- 2 analog outputs: 4...20mA
- 1 USB interface
- 1 Ethernet interface
- program memory: 256000kB
- Modbus TCP protocol supported

Software CODESYS

- programming language conforming to IEC61131-3

24VDC

LxWxH: 215x86x110mm

Weight: approx. 1kg

Scope of delivery

- 1 PLC module
- 1 PLC programming software
- 1 cable

Description

- programming a PLC using programming software
- Ethernet network integration is possible

The programmable logic controller (PLC) is pre-installed on a panel which can be quickly and easily attached to the frame of the RT 450 base module. All the connections for the PLC are pre-configured on connector assemblies ready for plugging-in to terminals on the rear of the panel.

The scope of delivery of the PLC includes the programming software CODESYS.

The PLC is equipped with an Ethernet interface for integration into the Ethernet network. The Modbus TCP protocol used in the network is supported by the PLC.