

Item No.: SO4204-3P

Course automation technology 3: Basics robot technology

Includes:

- 1 Experiment card containing CPU with PLC functionality and PROFIBUS-DP master interface, 8 digital inputs with simulation switches and status LED, 8 digital outputs with status LED connected via 2mm socket, 8 analog inputs with 10-bit resolution, 4 analog outputs, potentiometer for simulating analog inputs, selectable levels for digital signals 5/24V DC, level for analog signals 0-10V, external PROFIBUS devices may also be connected
- 1 Experiment card with direct connection from SUB-D9/SUB-D25 to 2mm sockets
- CD-ROM with Labsoft-Browser und Course-Software

Additionally required for course:

- 4 axis handling robot
- Conveyor belt 24 V

Course contents:

- Introduction
 - Safety instructions, structure of robot
- Programming of movements
 - Movement types, Coordinate systems, Joint movement, Linear movement, Speed and acceleration, Tool coordinate system
- Programming of IO instructions
 - Possibilities of communication, Implementation, Gripper: Variants and controls, linkage with conveyor belt
- Programming of structures
 - Wait, If-then-else, For, subroutines, Test of programs
- Programming of tasks
 - Proceed, Strategies, Planning, Programming of movements, PLC-Programming
- Course length: ca. 8 h

