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Process Control

IPA 1 Compact Station



IPA 1 Compact Station

Professional automatic control of pressure, temperature, level and flow-rates

The compact station with 4 integrated controlled systems is the optimum solution for typical production processes in the most varied of industries. The system's modularity permits various configurations to be implemented in the safety of the laboratory environment.

Training content:

- Design, wiring and commissioning of a process engineering plant
- Selection, deployment and connection of different sensors
- Measurement of electrical and process-control variables like liquid level, flow-rate, pressure and temperature
- Deployment and connection of transducers
- Design, assembly and commissioning of control loops
- · Analysis of controlled systems and control loops
- Putting continuous and discontinuous controllers into operation
- Setting parameters and optimising P-action, PI-action and PID-action controllers
- Design of open-loop and closed-loop programs
- Operating and monitoring processes
- Inspection, maintenance and repair
- Networking process engineering systems

Basic equipment set, consisting of:

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Pos.	Product name	Bestell-Nr.	Anz.
1	Course - Process technology: IPA 1 Compact station	CO4204-3E	1
2	IPA compact station	LM9550	1
3	Mechatronics aluminium profile carriage without table-top frame	ST7200-3R	1

Accessories:

Pos.	Product name	Bestell-Nr.	Anz.
4	25-pin serial interface cable, Sub-D plug/socket	LM9061	1

Additionally required:

Pos.	Product name	Bestell-Nr.	Anz.
5	UniTrain Interface with virtual instruments (basic VI)	CO4203-2A	1
6	UniTrain Experimenter	CO4203-2B	2
7	UniTrain measurement accessories, shunts and connection cables	CO4203-2J	1

Additionally recommended

Pos.	Product name	Bestell-Nr.	Anz.
8	Multi13S digital multimeter	LM2330	1

9	UniTrain storage case for one system	CO4203-2Y	1
10	Protective cover for 600mm wide IMS experiment trolleys complete with experiments	ST8010-8M	1