

Product Name :
PLC Application Mixing Process with PLC Module

Product Code :
AR198



Description :

PLC Application Mixing Process with PLC Module

Technical Specification :

PLC Application: Mixing Process with PLC module
Clearly laid out trainer as basis for the use of a PLC in a process control application involving mixing processes
Transparent mixing tank with 3 capacitive proximity switches to monitor the level
3 transparent measuring tanks, each with 2 capacitive proximity switches
Metering from the 3 measuring tanks into the mixing tank via solenoid valves
Mixing assisted by stirring machine in mixing tank
Proximity switch signals processed by PLC via lab jack panel
Control of the 8 solenoid valves, the pump and the agitator also by PLC via lab jack panel
Capacitive proximity switches with adjustable sensitivity
Closed water circuit with centrifugal pump and stainless steel storage tank
Power supply to all components and to PLC by built-in power supply unit

Technical Data:

Centrifugal pump (submersible pump)
Power consumption: 430W
Flow rate: 150L/min
Head: 7m
Tanks
Storage tank: 70L
3 measuring tanks: each 1500ml

Mixing tank: 7L
Capacitive proximity switches, NO contacts
2/2-way solenoid valves DN 8 and DN 20
Power supply unit: 24VDC, 8A
PLC module
Familiarisation with a PLC
Familiarisation with the essential fundamentals such as
Boolean algebra
Compiling statement lists
Interconnection diagrams and block diagrams
Exercises in
programming
Logical "AND" / "OR" gates
Logic relays
Output and input
Configuration of program sequences by way of connectors, incorporating
Timers
Counters
Cascade circuits
Higher-order monitoring relays etc.
Fault finding

Technical Data:
PLC
Connections
16 digital inputs
16 digital outputs
2 analogue inputs
1 analogue output
Memory type: PLC back-up battery for 32kByte RAM and clock
Rated voltage: 24VDC
Software
Graphical user interfaces
Programming languages to IEC/EN 61131-3:
Statement list (STL)
Ladder diagram (LD)
Function block diagram (FBD)
Structured text (ST)
Graphical topology configurator
230V, 50Hz, 1 phase

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