

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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