

**Product Name :**  
PLC Application Materials Handling Process with PLC Module

**Product Code :**  
AR325



**Description :**

PLC Application Materials Handling Process with PLC Module

**Technical Specification :**

PLC Application: Materials Handling Process with PLC Module  
Compact unit for experiments in the field of automation  
Handling device with solenoid valves  
Double-acting cylinder (15mm stroke): fixing / discharge of workpieces to container  
Double-acting cylinder (80mm stroke): pushes workpiece onto conveyor belt  
Double-acting cylinder (40mm stroke): executes the process (sorting or punching)  
Conveyor belt with guide plates and dc motor  
Cylindrical plexiglas storage container holding 11 workpieces  
15 workpieces made of polyoxymethylene (pom): 10x white, 5x black  
Pneumatic components fitted with quick-release couplings for 4mm hoses  
Operation of actuators with compressed air  
Lab jacks to external plc  
Set of laboratory cables and pneumatic hoses  
Compressed air supply: max. 6bar, 3bar recommended.

**Technical Data:**

3 electrically operated 5/2-way valves  
With spring return  
With pilot valve  
Reflex photoelectric proximity switch

PNP, light-switching  
5...150mm  
Geared DC motor  
Reduction ratio: 142,5:1  
Nominal torque 5,92nm  
Nominal speed: 22rpm  
Polyester weave conveyor belt  
Workpieces, DxH: 40x20mm  
PLC module  
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  
Module for basic exercises on a programmable logic controller (plc)  
Self-contained plc module, usable as part of a complex system  
Integrated patch board for creating circuits with input and output elements  
PLC with 2 integrated set point encoders  
Programming software to IEC 61131-3; software via USB under Windows 7, 8.1, 10 including PC1 Computer-System with 21" TFT-Monitor Win 10 engl.  
example program supplied

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)  
Multiple dialogue languages (german, english, french, spanish)  
Graphical topology configurator  
230V, 50Hz, 1 phase  
With accessories

Set of instructional material/manuals in hard and soft copy  
Installation, commissioning and training included

## Naugralabequipments

**Website:** www.naugralabequipments.com, **Email:** sales@naugralabequipments.com

**Address:** 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India. **Phone:** +91-9896600003