

ESD003

Pedagogical PLC

TECHNICAL DESCRIPTION

ESD003B Packages include :

- Industrial PLC (Siemens S7-1200 (24 On/Off Inputs/Outputs and 1 Analogue Input/Output), set in a box with Ø 4-mm connectors to be put on a table,
- A power supply,
- A CDROM with programming software

TOPICS

- Control of an automatic system with PLC or PC, counting and delays.
- Several operating parts are available:
 - Traffic lights,
 - 3-levels hoist, 21 I/O,
 - 5-levels lift system (50 I/O) partial control or complete control with networks connection,
 - Pneumatic robot system (50 I/O) partial control or complete control with networks connection.

TRAINING

- Scientific or Technical Highschools
- Polytechnics

- Technical Colleges (Bachelor degree)
- Engineers schools

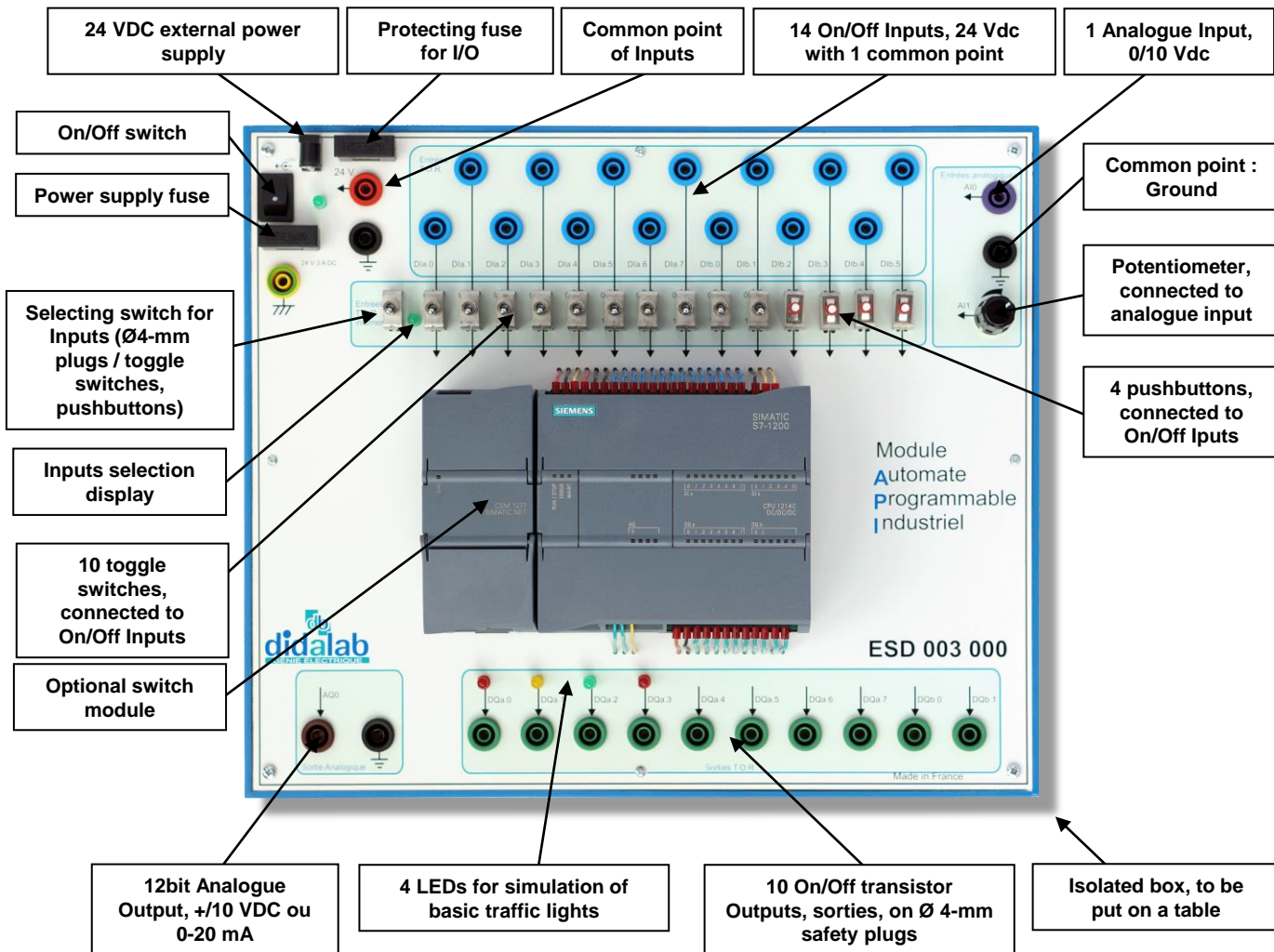
ESD003000, technical details :

It is especially fit to pedagogical purposes. The PLC is set in a PVC isolated box which can be put on a table. The connections to operating parts are done with Ø 4-mm safety cables.

The PLC used is a SIMATIC S7 1200, with the following characteristics:

- Memory 50 Ko, 6 speed counters and 2 pulse outputs,
- Cycle time: 1ms for 1000 instructions,
- PROFINET port for programming.

A simulator of variables (10 toggle switches and 4 pushbuttons for the Inputs, colour LEDs for 4 Outputs) allows to use this equipment in an autonomous mode, basic traffic lights simulator, access control...)



Standard configurations

ESD003B : Basic package « Automatic control implementation with S7-1200 PLC », including :		
Reference	Description	Qty
ESD003000	Siemens PLC, 14 On/Off Inputs and 10 On/Off Outputs, 1 A/D I/O, supplied with TIA portal software for PC (1 station licence), UTP cable.	1
ESD003040	Practical works manual, « application to ESD250C hoist »,	1
EGD000005	24 Vdc, 2.9 A Power supply	1

OPTIONAL Extra : ESD003300, 8 On/Off I/O expansion
 ESD003100, Software expansion (GEMMA, Grafcet, Ladder)
 ELD100200, 52 cables, Ø 4-mm safety plugs, several colors and lengths