TRAINNING SUITCASE FOR INDUSTRIAL PLC PROGRAMMING

Discover easily and quickly the use of an industrial PLC with this simple and intuitive solution. This compact didactic solution allows the acquisition and validation of skills in a simple environment. Ideal to initiate your students in a clear and fast way!

The model simulates an industrial control panel connected to a PLC. It is composed of several buttons and sensors to send discrete and analog signals, thus to program the PLC and to interface the HMI to simulate an industrial process.
Component identification and other technical characteristics are directly screen-printed on the faces. Wiring on 4mm terminals (wiring cords provided).

The pedagogical folder contains 2 examples of systems to study and simulate:
• A conveyor system, interacting with TOR signals
• A PID control system, interacting with TOR and analog signals

It is also possible to connect this suitcase to an operative part using safety cords.
Supervision can be carried out on PC via the Vijeo Designer Schneider® software (provided) or from a tablet with the free application VIJEO DESIGN'AIR FREE downloadable from Apple Store® or Play Store®.

EDUCATIONAL OBJECTIVES

- ***Discover industrial automation***
- ***Set up and program a PLC***
- ***Set up and program an HMI***
- ***Become familiar with supervision***
- ***Study Ethernet / IP addressing***
- ***Study a communication by Wifi***

Possible practical works

• Study and realization of an electrical wiring diagram
• Realization of GRAFCET, LADDER and Chronogram diagrams
• Study and wiring of a PLC and various control devices.
• Programming of the PLC in contact language via USB or Ethernet
• Use of PLC programming software
• Ethernet network configuration
• Loading, modifying, creating supervision programs
• Realization of a Wifi configuration to control from from a tablet or a Smartphone
• Connection of the various components to start an operating cycle

COMPOSITION

On the upper side

• 1 Schneider® 5.7" HMI.
• 1 on/off button.
• 2 switches.
• 2 NO push buttons.
• 2 NF push buttons.
• 4 24VDC indicator lights.
• 1 Shunt resistor for conversion of 4-20mA signal into voltage.
• 1 Digital Voltmeter 0-30VDC.
• 1 DC motor 12VDC 4.8W.
• 1 Photoelectric sensor.
• 1 Mechanical limit switch.

On the underside

• 1 Schneider® PLC
  - 13 discrete inputs
  - 2 analog inputs 0-10VDC
  - 9 discrete outputs
-2 analog outputs 4-20mA
• 1 24VDC contactor
• 1 4-port WiFi access point for supervision from a tablet or smartphone
• 1 24VDC power supply
• 1 10VDC power supply

ref. VAL-AUTO-C

DELIVERED WIRED AND SET | AUTONOMOUS WIFI NETWORK | TEACHING RESSOURCES STUDENTS / TEACHER

Suitecase with ergonomic handle.
Dimensions 534 x 374 x 190mm.
Power supply by 230V-2P+T power cord.