

## 5. HMI and PLC

### Training objectives

- To program a PLC with Unity Pro
- To study the display unit
- To program the HMI terminal with Vijeo Designer
- To operate the terminal
- To manage breakdowns via feedback from the terminal

### Presentation

The console consists of a Modicon M340 PLC whose logic I/Os are on surface plate. Inputs and outputs are connected from an outside operational part in form of push buttons, limit switches and the indicators respectively. The analogue I/Os are placed remotely in the form of female connectors. The male connectors are pre-wired. A Magelis display unit enables operator dialogue.

### Description

Contents	
Description	Quantity
M340 Ethernet PLC	1
Discrete inputs hardwired on switches	16
Discrete outputs hardwired on double-recess plugs	16
Analog inputs on double recess plugs	4
Voltage and current analog output, on double-recess plugs	1
Voltage and current analog output, on double-recess sockets	1
5.7" HMISTU Ethernet colour touch screen terminal	1
24 VDC 4 A power supply on sockets	1
- set of programming cables for the PLC and display unit	1
- set of cables with round male connectors and flying leads	1
Software license	1

### References

Description	Reference No.
Training kit for HMI + PLC	AET-P01-HPL

