



*Non contractual photo*

**SERVICE : POWER SUPPLY 380 V TRI - 50 HZ - 0,25 KW - OTHER POWER SUPPLY: CONTACT US REQUIRES COMPRESSED AIR SUPPLY 6 BAR, 6 NL / H COMPUTER FOR USING THE LOGIC!  
DIMENSIONS : 1700 X 700 X 2000 MM**

**WEIGHT : 120KG**

## REFERENCE : MP115

The loop consists of a measurement of  $\Delta P$  at an altuglas tank, a pneumatic proportional valve on the water supply circuit controlled by a regulator. The circuit includes a pump, a pneumatic valve, a container with an overflow, a drain valve and a leaking valve.

### Educational Objectives :

- Level regulation (1st order process)
- Level regulation (integrating process)
- Study of the static response
- Open loop and closed loop identification
- Level sensor calibration
- Wiring of the control loop via the front of the electrical box
- Different operating point settings with manual valves
- Reproducible disturbances of the set quantity

### Technical specifications :

- A feed tank
- An altuglas column
- Stainless steel centrifugal pump
- A digital regulator
- Universal Input: TC, Pt100, T, mA, mV, V, Hz
- 4-20 mA control output
- Triple display output / setpoint
- Regulatory algorithm: P, PI, PID, self-adaptive
- RS485 communication card
- A P / I converter
- Differential pressure sensor
- A power box
- Module mounted on aluminum stainless steel frame
- RS485 / RS232 converter

### OPTIONS :

Compound MAC acquisition module: Windows operating system allowing: reading PID parameters the plot of the curves the configuration of the remote controller archiving values The software is simple and user-friendly. He understands : a mimic of the bench a control screen of the regulator the complete control of the regulator and the entry of the instructions P, I and D visualization of instructions and data acquisition