

FLOW CONTROL BENCH, LEVEL, AND CASCADE LEVEL / FLOW



Non contractual photo

**SERVICE : 380 V TRI - 50 HZ (OR 220V
MONO ON REQUEST) COMPRESSED AIR: 6
NL / H - 4 BAR PC TYPE COMPUTER (ON
REQUEST)
DIMENSIONS : 1500 X 600 X 2100 MM**

WEIGHT : 100KG

REFERENCE : MP133

The study bench is used to study flow control alone, level control only, level control with flow control.

Educational Objectives :

It will be possible, for example, to achieve :

- A study with a static response (level or flow).
- Simple level or flow regulation
- A 1st order or 2nd order regulation on the level
- A level control cascade on the flow.
- A delay effect

Technical specifications :

The bench consists of :

- Two vats
- A feed tank, filling up with mains water by means of a hose
- Auxiliary delay circuit with coil
- A pallet flow meter
- A float flowmeter for comparison of flow measurements on the supply
- A float flowmeter for calibrated flow disturbance
- A pneumatic valve.
- An IP converter
- Regulator regulator
- Two mbar pressure sensors for level measurement, located under the two altuglas tanks
- Two manual valves needle, adjustment and easy identification of the number of revolutions.
- Stainless steel centrifugal pump
- A master regulator
- A slave regulator
- Measurement and setpoint display for both controllers.
- The painted steel control cabinet features:
 - The lockable disconnecter,
 - The power indicator,
 - Re-arming,
 - The emergency stop,
 - The 2 regulators,
- A 4-position switch for the choice of: first-order level control; 2nd-order level regulation; flow regulation; cascade control.
- Double-well secured terminals allow you to recover the 0-10V of the inputs and outputs of the regulators.
- Control and protection of the pump.

OPTIONS :

Compound acquisition module: - an RS485 / RS232 converter - a Windows operating system that allows: . Reading the PID parameters,

. The plot of the curves, . The configuration of the remote controller .
Archiving values.