



Level control system by means of PLC & touchscreen

Réguleau is a level control system relying on a PLC and touchscreen, which can be used in three detection modes, using

- 3 binary floats or
- 4 height-adjustable conductive probes or
- 1 4-20mA hydrostatic pressure sensor

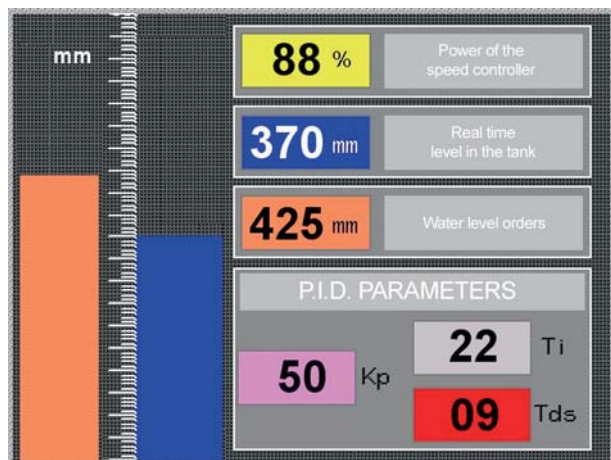
The water drawn from the lower tank supplies the upper tank (where the sensors are located) before running away via a manual valve. The PLC's PID and the variable flow pump allow a level control.

EDUCATIONAL OBJECTIVES

- to produce wiring diagrams
- to configure the PLC
- to program the PLC
- to configure the Ethernet links
- to configure the touchscreen
- to program the touchscreen
- to configure 4-20mA water level control using the PID inside the PLC
- to wire the grid (grid with Harting connector option)

ROLE OF MONITORING

- starting and stopping the system
- choice of level control type
- water level and settings bargraphs
- display and adjustment of the PID parameters
- display of the speed controller's power in correlation with the pump delivery
- adjusting the settings



Example of monitoring on the touchscreen

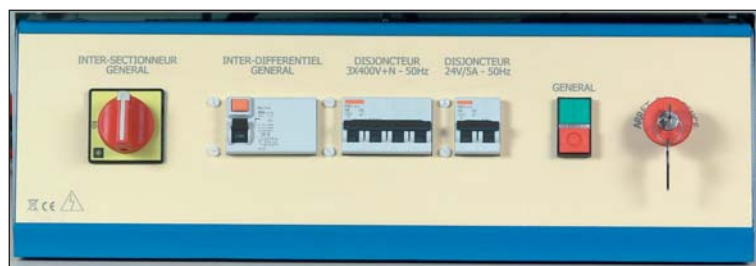
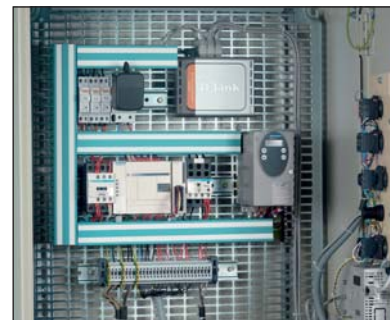
COMPONENTS PARTS OF THE MODEL

- 1 100L lower tank
- 1 transparent 60L upper tank, graduated in cm
- 3 level sensors with binary float (24V-2A).
- 4 50cm long Ø 6mm conductive probes.
- 1 hydrostatic pressure sensor.
Rating: 4-20mA output for 0-500mm water level
- Cabinet and console
- 1 5.7" TFT touchscreen
- 1 4-port RJ45 Ethernet hub
- 1 three-phase speed controller
- 1 TWIDO PLC with TWIDO SUITE software, fitted with a TCP/IP interface for the RJ45 link to a PC and the touchscreen.
14 Inputs + 10 Binary Outputs (24V)
1 analogue input 4-20mA
1 analogue output 4-20mA and 0-10V
- 1 30mA residual current circuit breaker. Magnetothermal circuit breakers
- General power supply via 400V three-phase socket
- Base with wheels + brake. 1200 x 750mm

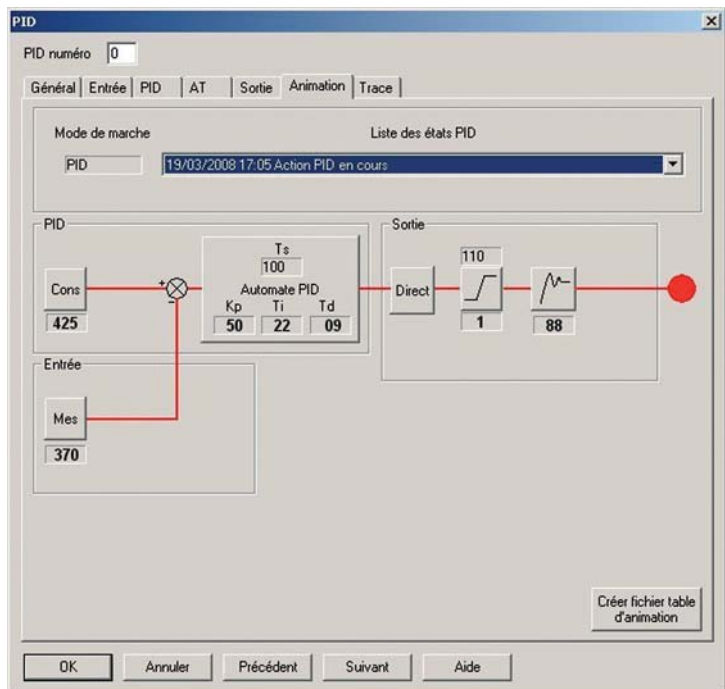
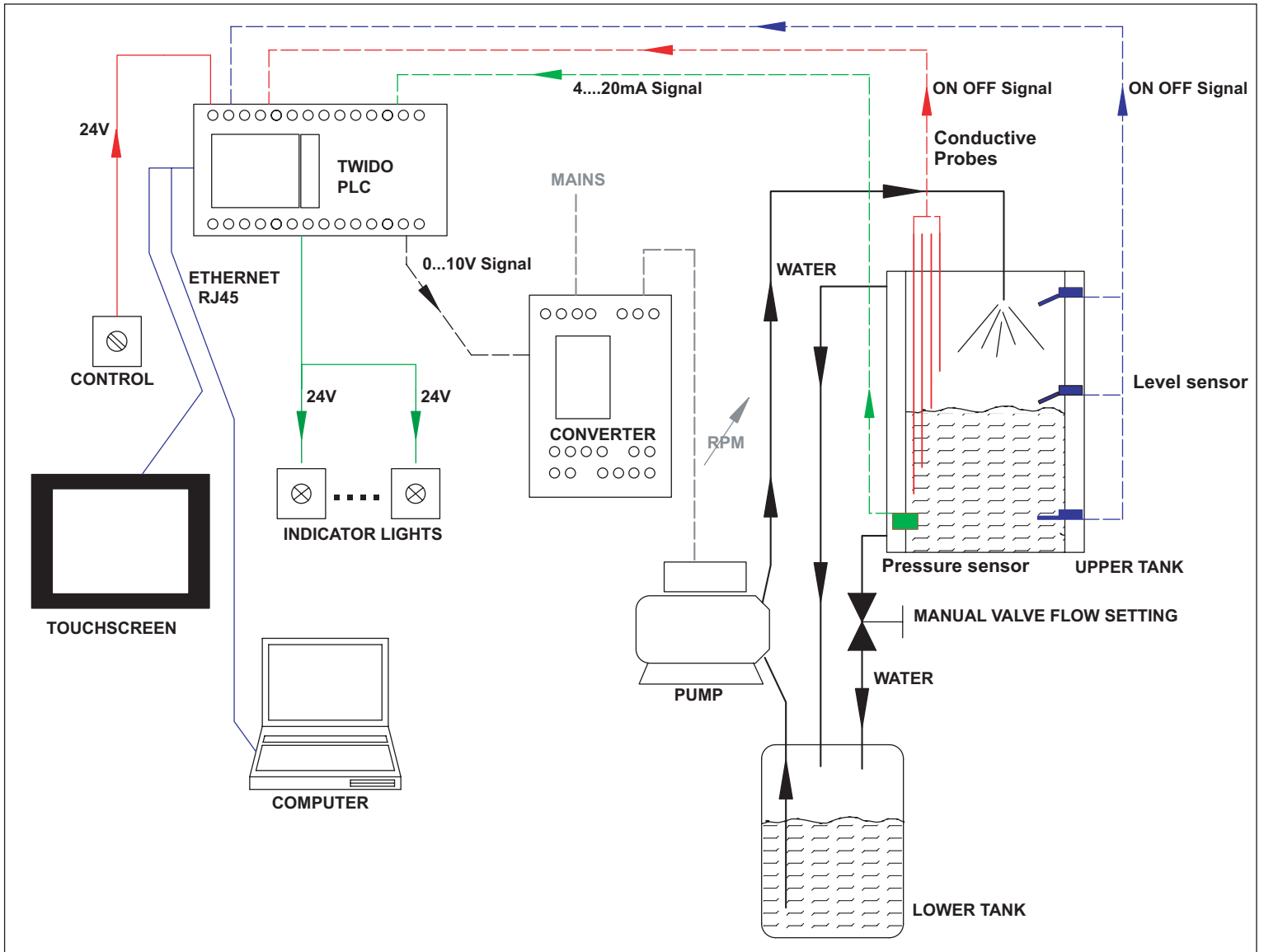


ref. REGULEAU

REGULEAU IS SUPPLIED ALREADY WIRED AND READY FOR USE WITH TUTORIALS, INSTRUCTIONS, SOFTWARE AND TWIDO AND MONITORING PROGRAMS.



NEW



PID Configuration by the PC. Software available in english & in french.

