

Water level control systems

4-SENSOR WATER LEVEL CONTROLLER



4 SENSORS | **24 Vac** | **RELAY OUTPUT**

- Detection by 4 probes
- Adjustable settings
- 2 relay outputs
- DIN mounting

Water level controller, used with filling function. Detection by means of 4 electrodes (high level, filling, stop, reference electrode).

Possibility of selection among 4 sensitivity range adjustment scales and sensitivity regulation 10..100% of the selected scale by means of a potentiometer.

Adjustable probe delay (1..10 sec) and pump start delay (0..30 min).

Provided with 2 relays outputs (1 N/O + 1 changeover).

A green LED indicates power supply on. The 2 upper red LEDs respectively indicate: relay 1 status (N/O contact of terminals 13 and 14) and relay 2 status (changeover contact of terminals 21, 22 , 24); when the relay LED is flashing, the tripping time delay is lapsing. After that, the relay is energised and the LED is constantly lighted.

The sensitivity adjustment is obtained by selecting the scale with the rotating selector "Sensitivity range" and then adjusting the percentage with the potentiometer "Sensitivity". Using the potentiometer "Start delay" the pump starting delay can be adjusted between 0 and 30 min. With potentiometer "Probes delay" the time delay, 1..10 seconds range, can be regulated so that this time elapses when the probe is both wet and not wet, in order to avoid false filling triggering caused by water motion.

The "Mode" potentiometer determines the working mode of the controller, to be used in "B" position, which means filling mode.

WORKING MODE

When the probes are all wet the fountain works normally.

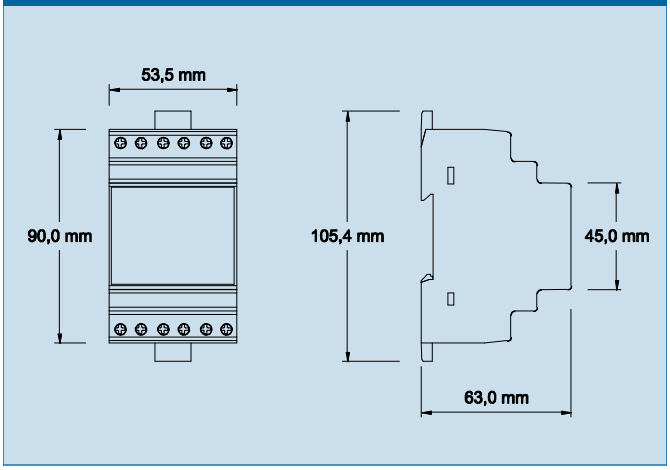
If the HIGH level probe is not wet, the system will go on working.

If the water level decreases below the FILLING probe, after a short delay ("Probes delay"), the controller will activate the filling electrovalve that will restore the water level inside the tank. In this condition the fountain will not stop, but it will go on working.

As soon as the water level covers the HIGH level probe, the FILLING will stop automatically.

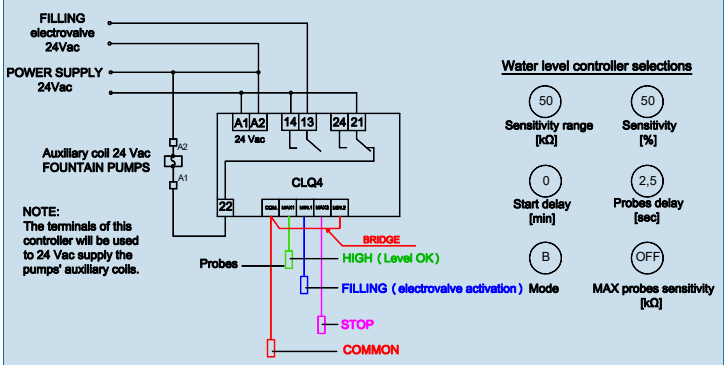
If the water level falls below the STOP probe, after as short delay the controller will STOP the fountain pumps and it will start the FILLING of the tank. Once the water level covers the HIGH level probe, the fountain system will restart working as usual.

DIMENSIONS



APPLICATION

SUGGESTED INTERCONNECTIONS AND SETTINGS



	4-SENSOR WATER LEVEL CONTROLLER
CODE	**CLQ4**
POWER SUPPLY	24 Vac - 50/60 Hz
ABSORBED POWER	4,5 VA max
POWER DISSIPATION	2,8 W max
PROBES VOLTAGE	10 Vpp
PROBES CURRENT	0,4 mA max
PROBE TRIPPING DELAY	1..10 s
RELAY ENERGISING DELAY	0..30 min
NO. OF RELAYS	2 (1 N.O. + 1 changeover)
RELAYS RATED VOLTAGE	250 Vac
MAX RELAYS SWITCHING VOLTAGE	400 Vac
WORKING TEMPERATURE	-20..+60 °C
STORAGE TEMPERATURE	-30..+80 °C
TERMINALS	0,2 - 4,0 mm^2 (24 - 12 AWG)
MATERIAL	Polyamide
WEIGHT	278 g

ACCESSORIES	CODE
4-SENSOR VISIBLE WATER LEVEL CONTROL	**CLV4**
4-SENSOR BUILT-IN WATER LEVEL CONTROL	**CLP4**
FLOOR OVERFLOW WITH 4-SENSOR WATER LEVEL CONTROL	**TPPCL4**
BUILT-IN OVERFLOW WITH 4-SENSOR WATER LEVEL CONTROL	**SCP4**
50 VA 12-0-12 TRANSFORMER	**T2450**