



Logik 124 is an electronic controller developed for the operation of a water pumps system (2 ÷ 4 units). The controller manages the pumps in a smart way, putting in operation the units strictly necessary according to the water demand and the working set, taking always under control starts/hours and working hours of each single pump connected to the system.

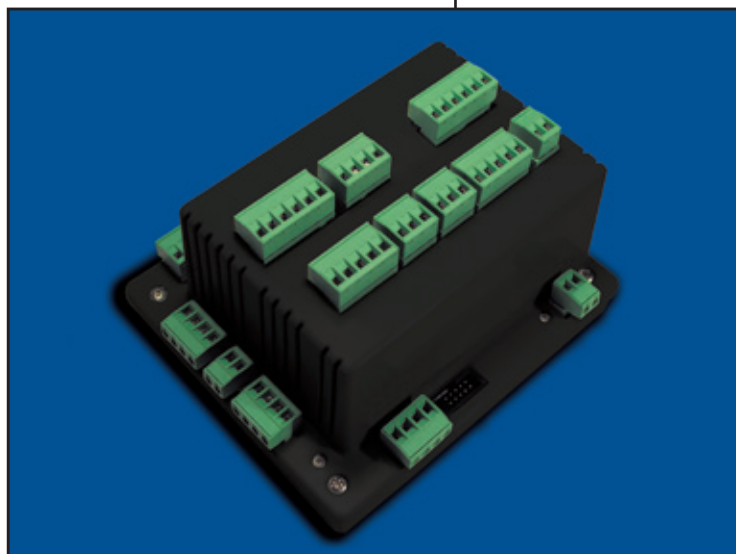
This operating principle matches the best efficiency of the system to energy saving. Easy to install and set, through the wide back-light graphic LCD Logik 124 allows to monitor in real time the status of the plant thanks to alarms and maintenance messages.

### Control panel: visualization through back-light graphic LCD (128x64 dots)



- Alarms and maintenance led
- Visualization: pressure, pumps in operation, temperatures and alarms

### CPU INTO ELECTRICAL BOARD





- Conformity to EC regulation:  
Low tension: 2006/95/EC  
EMC: 2004/108/EC
- Composed by CPU and Control Panel connected via serial cable RS232
- Inputs and outputs via terminal-block board to wires.
- Black auto-extinguishing boxes in ABS:  
IP64 for the Control Panel and IP20 for the other parts.
- Working temperature:  $-5^{\circ}\text{C}$  ( $23^{\circ}\text{F}$ )  $\div$   $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ), 90% RH (non condensing).
- Storage temperature:  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ )  $\div$   $70^{\circ}\text{C}$  ( $158^{\circ}\text{F}$ ).

#### Control panel

##### Visualization through:

- Graphic back-light LCD (128 x 64dots)
- Messages selectable into 2 languages: Italian – English
  - no. 2 led (alarm – maintenance)
  - no. 6 key-buttons
  - no. 1 buzzer
  - no. 1 serial port RS232 for connection to CPU

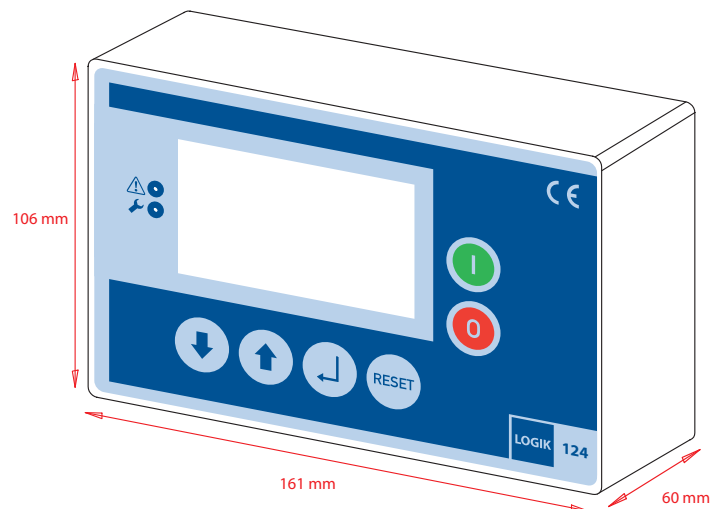
#### CPU for 2 pumps operation

- Power supply: 12 Vac  $\pm$  10% 50 $\div$ 60 Hz.
- no. 2 serial port RS 232:
  - 1) connection to control panel
  - 2) connection to GSM Unit
- no. 1 time-keeper with buffer battery
- no. 1 Eeprom
- no. 7 analog inputs:
  - no. 2 inputs for oil temperature probes: t1 for ambient – t2 for electrical board
  - no. 1 input for pressure transducer 0 $\div$ 15 bar (P1)
  - no. 1 input at disposal for auxiliary pressure transducer (P2)
  - no. 2 inputs for ampere transducers (top range 50 A.): TA1 for pump #1 – TA2 for pump #2

- no. 1 digital input for detection expansion board for the operation of 3/4 pumps.
- no. 6 opto isolated digital inputs (12–24 Vac) for detection:
  - IN 1 = emergency stop button
  - IN 2 = remote start/stop
  - IN 3 = pressure switch check pump #1
  - IN 4 = pressure switch check pump #2
  - IN 5 = missing water
  - IN 6 = configuration 3–4 pumps; open = 3 pumps – closed = 4 pumps
- no. 5 outputs via relay with contacts 2 A. 24 Vac, 300.000 cycles electrical life:
  - RL1 = contactor pump 1
  - RL2 = contactor pump 2
  - RL5 = fan contactor
  - RL6 = at disposal
  - RL7 = alarm

#### Expansion board for the operation of 3/4 pumps

- no. 2 analog inputs for ampere transducers (top range 50 A.):  
TA3 for pump #3 – TA4 for pump #4
- no. 2 opto isolated digital inputs from 24 Vac for detection:
  - IN 7 = pressure switch check pump #3
  - IN 8 = pressure switch check pump #4
- no. 2 outputs via relay with contacts 2 A. 24 Vac, 300.000 cycles electrical life:
  - RL3 = contactor pump 3
  - RL4 = contactor pump 4

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