

## OPERATION

The electronic controller orders the automatic start and stop of the water pump when opening or closing any tap or valve of the system. The controller can keep a constant pressure and water flow in the system as long as any tap in the system is open during the pump's operation.

## CAUTION!

The electronic controller can be used either for drinking water or non-drinking water system. In installations where both types of water are present, make sure that drinking water is not mixed with non-drinking one.

## CONSTRUCTION CHARACTERISTICS

- Inlet: male 1"
- Outlet: male 1"
- Special non return valve to avoid surges
- Security system avoiding the possibility for the machine to work without water
- Pressure gauge
- Manual start switch(RESET)
- Tension LED (POWER)
- Pump-working LED(ON)
- Security system LED (FAILURE)

## TECHNICAL CHARACTERISTICS

Voltage:~220/240 V

Max.current:10(6)A

Frequency:50/60HZ

Protection Grade:IP65

Max.water temperature:60°C

Starting pressure:1.5-3bar

Max.pressure for use:10bar

### ! INSTALLATION OF THE PRESSURE GAUGE(Fig.1)

The pressure gauge is provided with an O-ring, two fixing screws and a screw cap. The pressure gauge can be mounted on any side of the controller by introducing the cylindrical connector with the O-ring into the hole in the body of the device and fixing it by means of the two supplied screws. The screw-tap is to be located on the opposite side's pressure gauge vent (without O-ring or teflon).

### ! HYDRAULIC CONNECTION(Fig.2)

Before proceeding with hydraulic connection, it is essential to prime the pump correctly. The controller should be installed always in a vertical position, thus connecting the inlet opening(male 1")directly to the pump outlet and the lateral outlet(male 1") to the network. Avoid outlet non-return valves.

The following accessories are recommended:

Flexible with a disassembling link for network connection,protecting the set from possible flexion charges and vibrations. Ball valve which permits the isolation of the pump from installation.

## ATTENTION:

The water column between the pump and the highest point of use shall not exceed 15 m for model HYSK109A and the pumps should supply a minimum pressure of 2.5bar. If case of using the control in points between 15 and 30m height you are suggested to use model HYSK109B. The adjustment of the starting pressure is made by the screw placed in the top of the control ( Fig.5 )

Read the indicated pressure showed in the pressure gauge when the pump starts and perform on the screw according to the wished side ( Pressure adjusting must be performed by professional ). As per standards the starting pressure should be 0.2 bar higher than the manometric one , and the pump will have to give at least a pressure

0.8 bar higher than the adjusted one, Example:

USING HEIGHT	OPERATING PRESSURE ADJUSTMENT	MINIMUM PUMP PRESSURE
20m	2.2bar	3bar
25m	2.7bar	3.5bar

This operation only adjusts the starting pressure, not the working pressure which only depends on the pump feature. It will be easier to proceed with the adjustment if a tap of the installation is opened, that will reduce the internal pressure of the control.

### ! ELECTRIC CONNECTION (Fig.3)

Check the power supply to be~ 220/240 V, First disconnect the power supply,then dismount the cover①of the electronic circuit and make the connections as per diagram on plate ②. The controller can be also used for three-phase or single-phase pumps with intensities higher than 10A by means of an auxiliary contact. In this case, the connections will have to be made according the scheme in Fig.④

## WARNING

Using for clean water.

Bad connections may spoil the electronic circuit.

### ! STARTING:

- 1.-Be sure that the pump is correctly primed, and then gently open the tap.
- 2.-Connect the controller to the electric supply. The tension LED will light (POWER)
- 3.-The pump starts working automatically and within a period of 20-25seconds the pressure gauge will reach approximately the maximum pressure provided by the pump.During its working the corresponding LED(ON)will be on.
- 4.-Close the tap indicated on point 1.After 7-9 seconds the pump will stop. The tension LED (POWER)will be the only one to remain on.

Any problem after this procedure will be due to defective pump priming.

## POSSIBLE PROBLEMS

### 1.-Pump doesn't stop:

- a). Water leakage higher than 1.2l/min at some point---check the system, the tap,etc.
- b). Manual start switch (RESET) is blocked---press it for several times. Consult your dealer if the problem persists.

C).Breakdown on the electronic board---proceed to its substitution

d).Incorrect electric connection on electronic board②---check the connections according to Fig.3.

### 2.-Pump doesn't start:

- a). Not enough water supply, the security system has been activated and the LED (FAILURE) is on---check the water supply and restart the pump through the reset switch(RESET).
- b).Pump is blocked:  
LED (FAILURE) is on and the security system is activated. When we act on the manual start switch (RESET)the LED (ON)is activated but the pump doesn't work---consult your dealer.
- c).Failure in the electronic circuit---switch off power supply, wait a few seconds and turn it on again. If the pump doesn't start immediately then replace the circuit.
- d). No electrical supply---check the proper electric feeding. The tension LED (POWER) should be on.

e). Not enough pump pressure---the security system has been activated and the corresponding LED (FAILURE) is on. Check that the pump pressure is 0.8bar higher than the starting pressure of the controller.

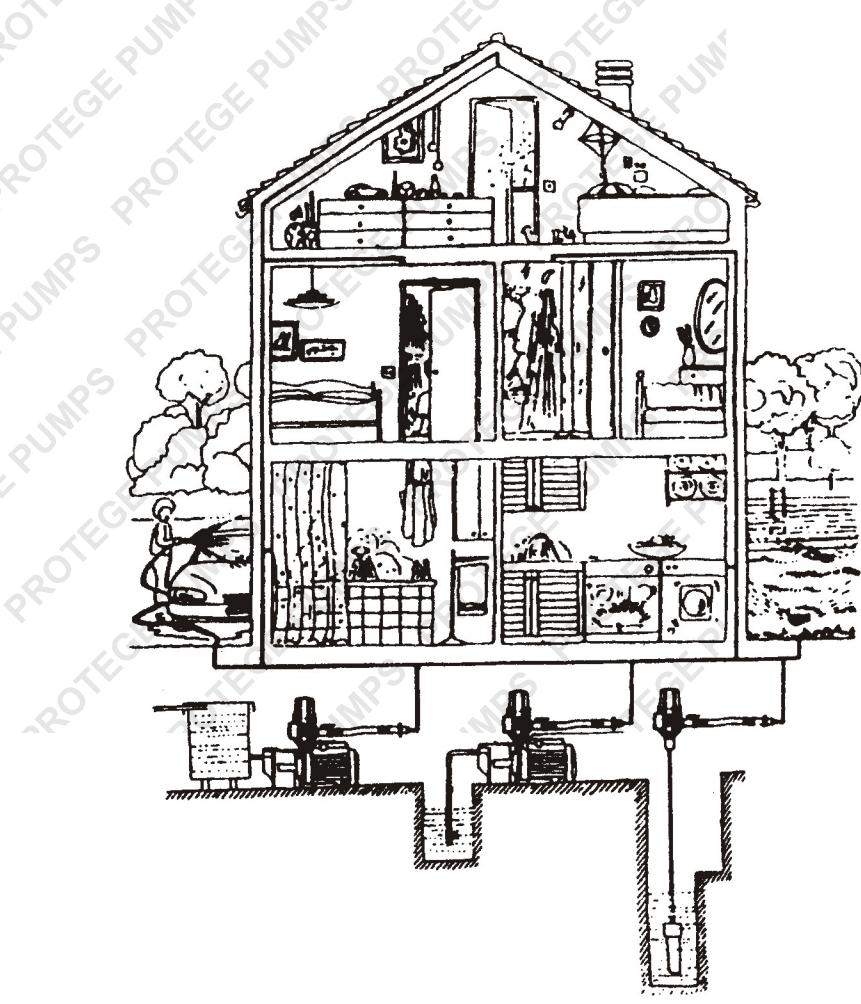
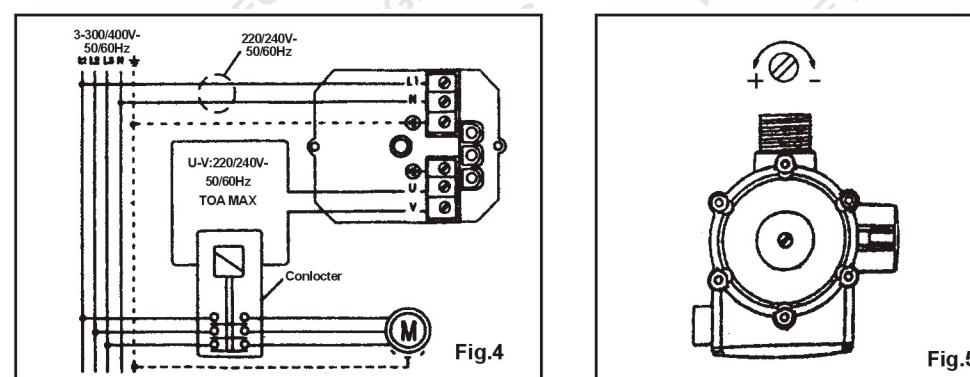
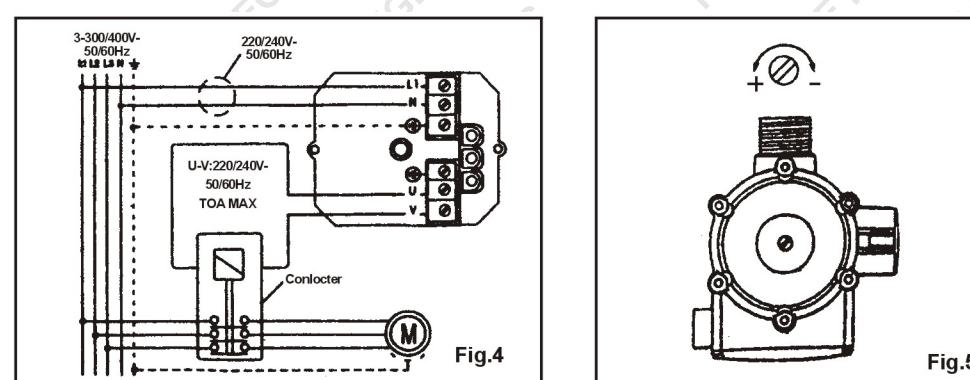
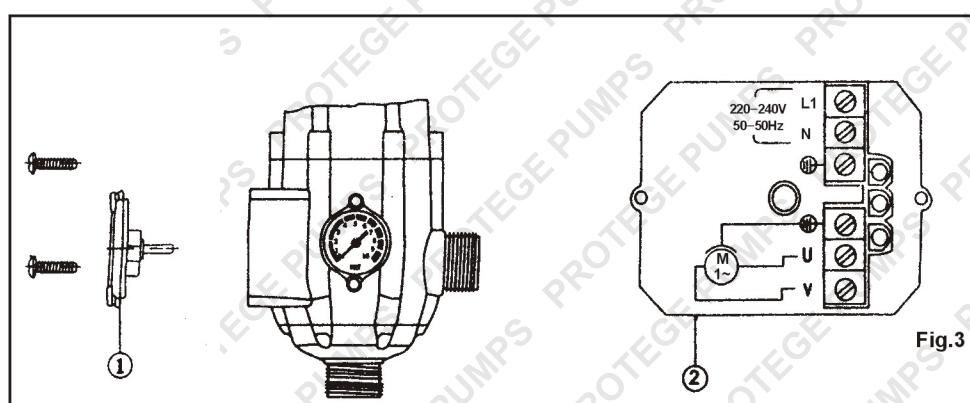
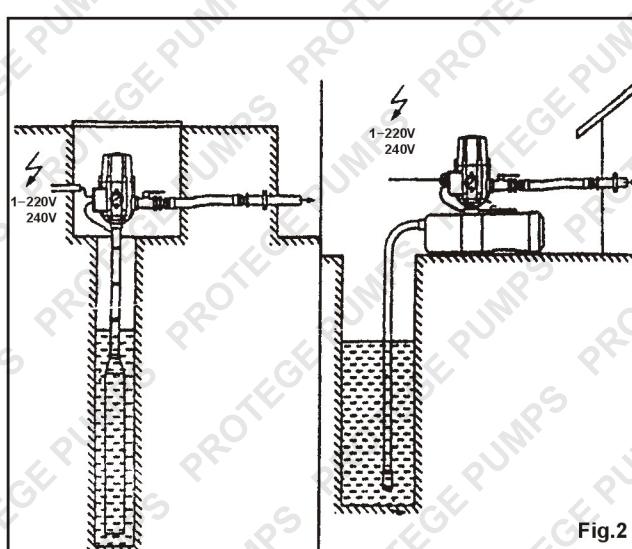
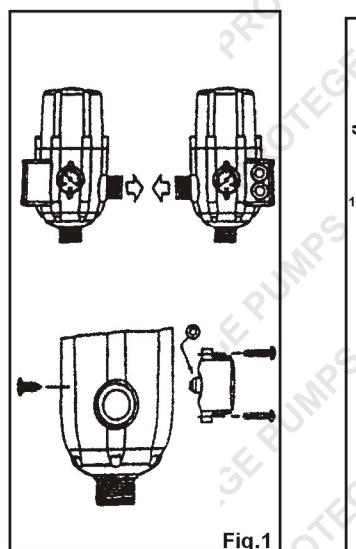
f). Air in the pump aspiration---the pressure gauge will indicate a pressure lower than the nominal or constant oscillations. The security system will act by stopping the pump and the LED (FAILURE) will be on.

Check the sealing of the connections and O-ring of the aspiration conduct.

### 3.-The pump starts and stops repeatedly:

- a). Small leakage in some point of the installation---verify possible tap of tank leakages and repair them.

# INSTALLATION & INSTRUCTION MANUAL FOR AUTOMATIC CONTROLLER OF WATER PUMP





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- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognised training course before being given access to the product.

- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example) there is always a small chance of a technical issue that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee or could financially affect the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error considering the points above simply contact the retailer directly for details of their returns policies if required.