

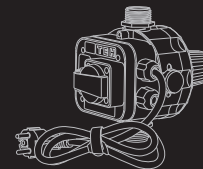


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Pressure Control

TPC12 TPC19

To Be Your Exclusive Helper



TEH

TECHNICAL SPECIFICATION

| | | |
|-------------------------|------------|------------|
| Model | TPC12 | TPC19 |
| Input voltage | 230V ± 10% | 230V ± 10% |
| Starting pressure | 1.5bar | 1.5bar |
| Max rated current | 10A | 10A |
| Max allowable pressure | 10bar | 10bar |
| Max ambient temperature | 40°C | 40°C |
| Max liquid temperature | 60°C | 60°C |
| Protection degree | IP54 | IP54 |

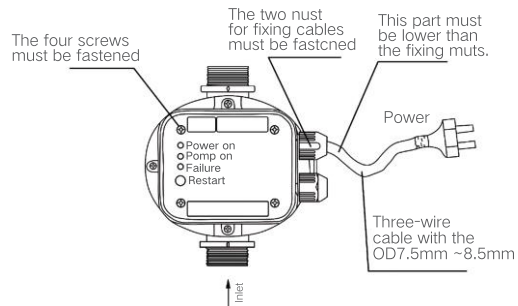


SAFETY INSTRUCTION

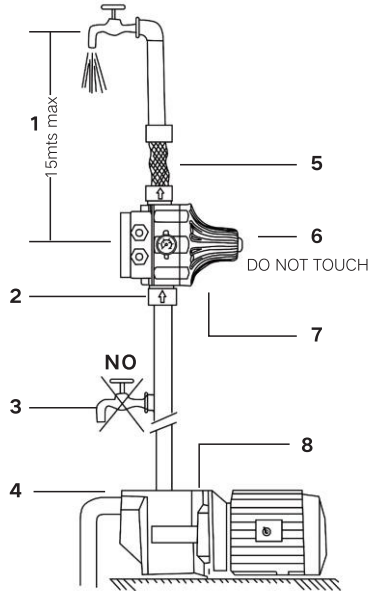
WARNING ⚠

Never take the electronic board out of the control box.

The wiring diagram inside the terminal block will show you how to make correct. Connection. Wrong connection will destroy the whole electronic circuit. Cable used for connection must be a three-wired one with compulsory grounding end. It shall have the outer diameter at 7.5mm min and 8.5mm max. One of the leading end of the cable must be lower than the position of the fixing screws while the cable being connected to the power as shown in the Fig. The four screws on the panel board and the two nuts for fixing cable must be well fastened to avoid water entering into the control box and damaging the electronic circuit.



INSTALLATION INSTRUCTION



1. If the column of water between the pump and the highest tap exceeds 15 mts, the unit cannot be installed directly on the pump, but it has to be raised until the column of water between the unit and the highest tap does not exceed 15 mts.

I. E. If column of water is 20 mts.

From the pump, the unit must be placed 5 mts higher than the pump.

2. The unit is equipped with a check valve to prevent the pipeline from losing pressure.

3. No taps can be installed between the pump and the unit.

4. PUMPS PRESSURE

The unit is pre-set by the manufacturer at a restarting pressure of 1.5 bar,

The pressure produced by the pump must be normally 0.8 bar higher than the pre-set pressure.

Before starting the unit check suction and ensure that the pump is primed.

5. It is advisable to connect the unit outlet to the system by means of a flexible hose.

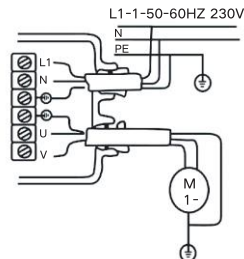
6. Safety valve preventing water emission in case of diaphragm breaks.

7. It is imperative to install the unit with the arrows in the upward position.

8. The unit can be installed directly on the pump, or between the pump and the first tap.

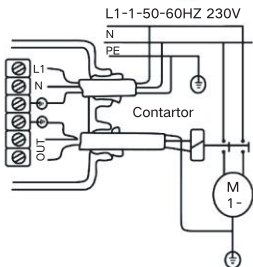
WIRING DIAGRAMS FOR CONNECTING THE UNIT TO DIFFERENT KINDS OF PUMP'S MOTORS

Wiring diagram for connection of single phase 230V pumps up to 1.1 Kw.



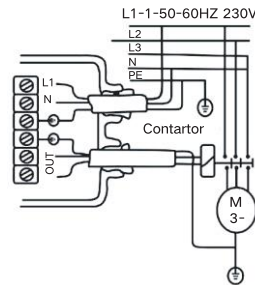
Wiring diagram for connection of single phase 230 V pumps over 1.1 KW. Through remote control switch.

SPECIFICATIONS FOR REMOTE CONTROL SWITCH
Minimum contacts capacity of 4 Kw or 5.5 HP approx. 230V



Wiring diagram for connection of three phase 380 V motor pump] through remote control switch.

SPECIFICATIONS FOR REMOTE CONTROL SWITCH
Minimum contacts capacity of 4 Kw or 5.5HP approx. 230V



OPERATION INSTRUCTION

STARTING

When the unit is connected to the electrical network , the green led "Power On" lights up and the yellow led "On" (pump in operation) indicates that the pump has been started.

The pump continues to operate for dozens of seconds enabling the system to fill in the pipes and to reach the required pressure.

If this lapse is insufficient, the red led "Failure" lights up. In this event, keep the 'Restart' button pressed and wait, with a tap opened, until the red led is off.

Once released the button and closed the tap, the unit stops the pump at its maximum pressure.

FUNCTIONING

The starting operation archived, the unit is programmed to perform all the pump control operations automatically.

When particular operational breakdowns occur, such as water failure, obstruction of the suction pipe etc, The unit recognizes the breakdown and the red led"Failure" lights up; at the same time a stop signal is sent to the pump to prevent damages caused by its working in the absence of water.

Rectification of the failures that have caused the blockage, allows the system to be restarted by pressing the "Restart"button.

TROUBLESHOOTING

| Problem | Possible Causes | Likely Solutions |
|-------------------------|---|--|
| The pump does not start | The electronic card is broken | 1. Voltage failure 2. Pump jammed 3. Electric cables inverted (Line/motor) |
| The pump does not stop | 1. The electronic card is broken. 2. The flow detector is blocked in the upper position. 3. The reset button is blocked. 4. The pump does not provide sufficient pressure. | Presence of leaks which are higher than the minimum flow 0.61/min |

| | | |
|---------------------------|---|--|
| Intermittent pump working | 1. The electronic card is broken 2. The pump does not provide sufficient pressure | Presence of leaks which are lower than the minimum flow 0.61/min |
| The pump is jammed | 1. The electronic card is broken 2. The pump provides a pressure which is lower than the restarting pressure | Water failure suction problems |

WARRANTY CARD

Dear customers, the warranty service for purchasing TEH products is as follows:

Under normal use, within one years from the date of purchase. It is guaranteed that the damage is caused by the quality of the tool.

The following conditions occur during the warranty period, not covered by the warranty:

- a. Any valid legal document (single ticket) certifying the date of purchase
- b. Any damage caused by natural wear and overload
- c. Any damage caused by the use of low-priced inferior accessories
- d. Any damage caused by improper carrying, transportation or storage
- e. Any product that has been opened, repaired, replaced, or modified by itself
- f. Any damage caused by misuse, beyond the scope of use of the tool, and failure to use and maintain in accordance with the instructions

 ladies/gentlemen: _____ employer: _____

contact number: _____ fax number: _____

contact address: _____

warranty record: _____

post code: _____

IMPORTANT NOTE

1. The invoice and warranty card must be presented at the time of warranty.
2. The fuselage number on the invoice is the same as the fuselage number on the warranty card.
3. Once this warranty card is issued, if it is lost, it will not be reissued. Please keep it properly.

Note: The company reserves the right to amend the above provisions and has the final interpretation right in the case that the warranty service does not violate national laws.