

USER'S MANUAL

TANK TO TANK

NAV-PC80A-TT



N Electech

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1. INTRODUCTION.

1.1. ACKNOWLEDGEMENT LETTER.

We would like to thank you in advance for the trust you have placed in us by purchasing this product. Read this instruction manual carefully in order to be familiarized with its contents because as much as you know and understand the equipment the highest will be your gratification and safety levels and their features will be enhanced too.

We remain at your entire clearance for any further information or any query you should wish to make.

Yours sincerely.

N ELECTECH

- The equipment here described can cause important physical damages due to wrong handling. This is why, the installation, maintenance and/or fixing of itself must be done by our staff or qualified personnel exclusively.

- While we have made every effort to guarantee a complete and accurate information in this user's manual, we are not responsible for any errors or omissions that may exist. The images included in this manual are illustrations and they could not represent the part of the equipment exactly, therefore they are not contractual. However, differences that could exist will be improved or solved with the correct labelling of the equipment.
- According to our policy of constant evolution, we reserve the right to modify the specifications, operating or described actions in this document without forewarning.

2. SAFETY INFORMATION.

2.1. USING THIS MANUAL.

Before doing any action over the equipment regarding installation or commissioning, change of location, setting or handling, read them carefully. This user's manual is intended to provide information regarding the safety and to give explanations about the procedures for the installation and operating of the

equipment. Read them carefully and follow the stated steps in the established order.

- Installers should be qualified electricians or technicians
- The installation information in the manual is for information purposes only.
- The monitoring and operation information in this manual is intended for anyone who needs to operate the controller.
- The pump controller output cannot be paralleled with another pump controller or AC source.
- Connection and installation instructions must be followed.
- To reduce risk of electric shock, disconnect all wiring before making any attempt to maintain or cleaning the unit. Turning off the PUMP CONTROLLER will not reduce this risk.

- Retain the load within in the rating to prevent faults.
- Mount the pump controller vertically.
- Do not install the pump controller on a rugged or inclined surface.
- Do not remove the top cover of the pump controller.
- Sketches are intended for illustrative purposes only and are not intended to provide an electrical design.



Voltages capable of causing severe injury or death by electrical shock are present in this unit.

3. DESCRIPTION

Model Number: NAV-PC80A-TT

Model Name: Tank To Tank

Tank to Tank is fully Automatic Water Pump Controller for your home and Industry. It continuously monitors the water level of the overhead tank and underground tank. The Automatic Pump Controller controls the water pumps and turns it ON and OFF with respect to the level in the water tank. This auto-switching feature Saves Manpower, Electricity, Water and Money. You can operate your pump with both manually and Automatic. Our system switches the pump when the level of water in the tank goes below LOW level and OFF when the water touches the HIGH level. This is Microcontroller based pump controller. Thus, no wastage of water and can save electricity bill and water charges.

4.Features/Working

There are two type of features

1 Manual

2 Automatic

1. Manual Mode

In manual option you can directly start the controller by switch (Point- 1, Fig 1).

Even in manual mode if the water level in the overhead tank reaches on a maximum level the controller automatically stops the pump. So, if you forget to stop pump in manual mode, controller stop the pump.

2. Automatic Mode

Press the switch (fig 1, point-1) to use automatic mode. Then the auto light (fig 1, point-2) will start burning.

The sensor (GND, fig-2) will sense the water in the underground tank. If the water is available then it will sense the water in the overhead tank through GND Sensor.

J1(fig-2) sensor will check the maximum water level of the overhead tank. If there is less water then it will start the pump. As soon as the water touches the J1(fig-3) sensor in overhead tank, the controller will turn off the pump. The pump will remain off until the water touches the J2 sensor. The controller will start the pump as soon as the water level crosses the J2(fig-3) sensor. The J3 sensor senses the underground tank whether the water is filled up or not, if the water is filled up then the controller will start the pump. If you do not have underground tank, then ignore the J3 and J4 sensors. J3 sensors are used to check the water coming from the municipality pipe connection. J5 sensor keeps checking in every 2 min whether water is flowing or not. If there is no water coming from motor, then the J5(fig-3) sensor will turn off the pump.

5. Tank To Tank

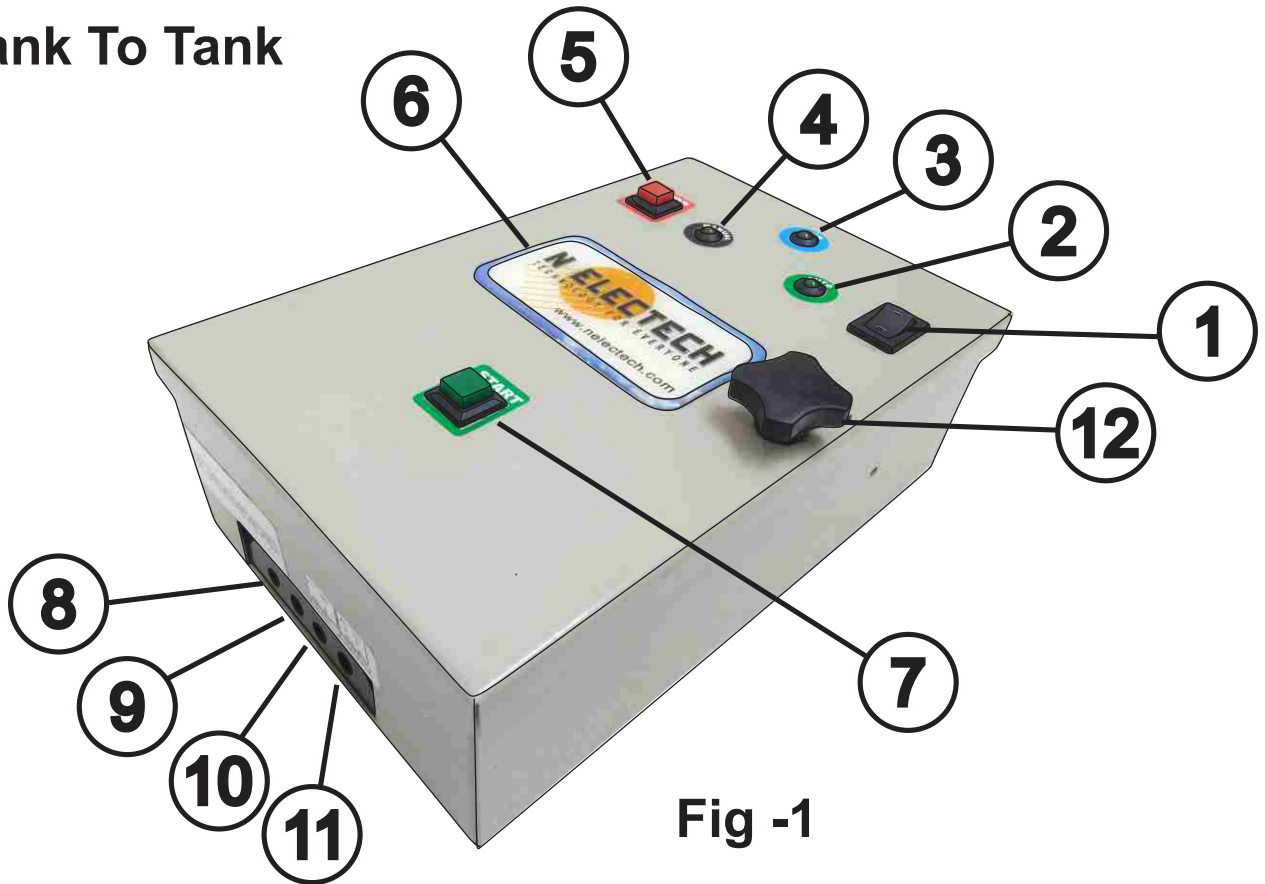


Fig -1

Point Shown in Fig 1

1. Switch for Auto and manual
2. Auto light
3. Run light
4. Manual light
5. Stop
6. N Electech Logo
7. Start
8. 230 V Input
9. 230 V Input
10. Output
11. Output
12. Rotary Knob

6. Pump Connection

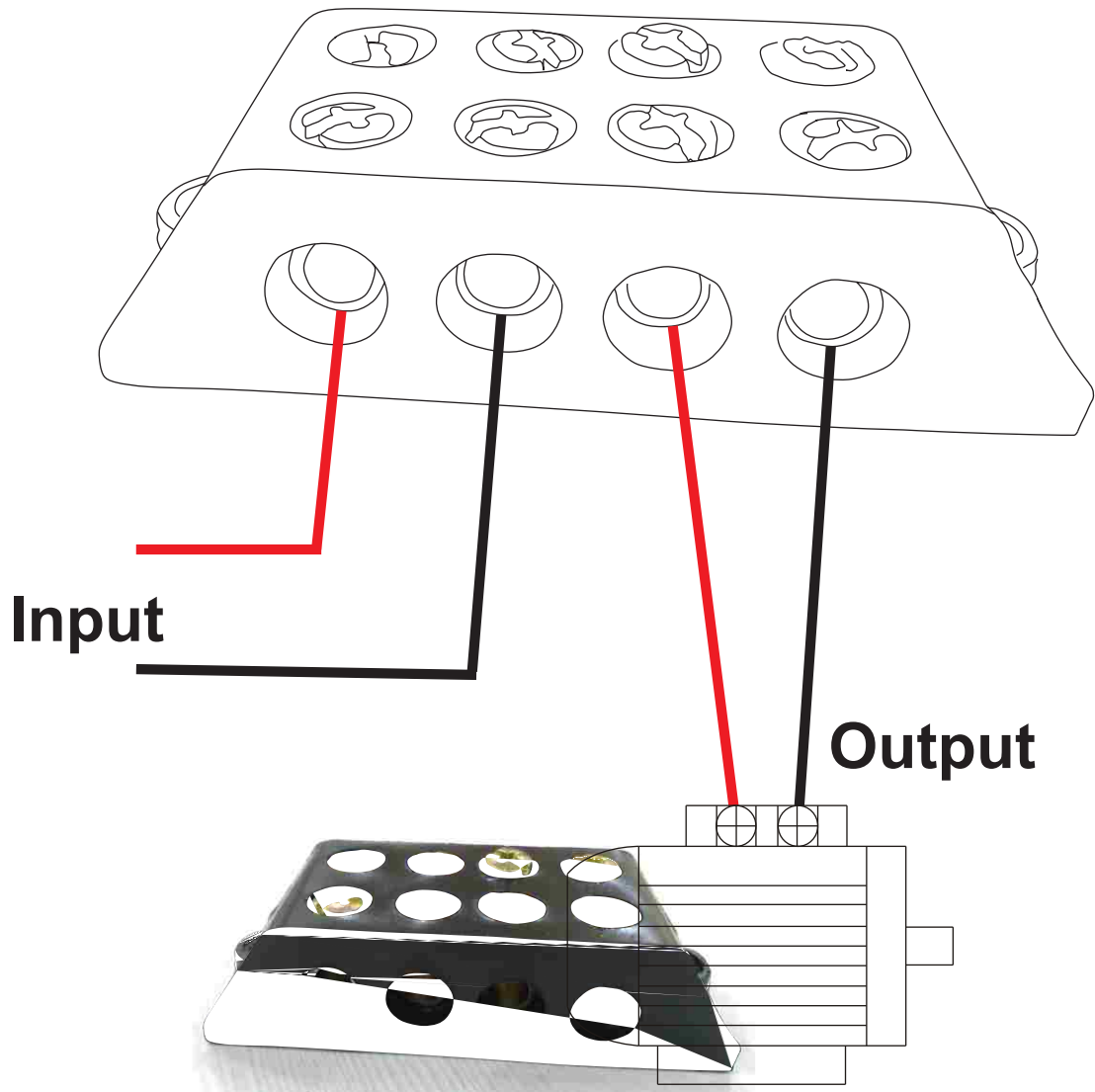


Fig- 4 Pump Connection

7. Sensor Connector

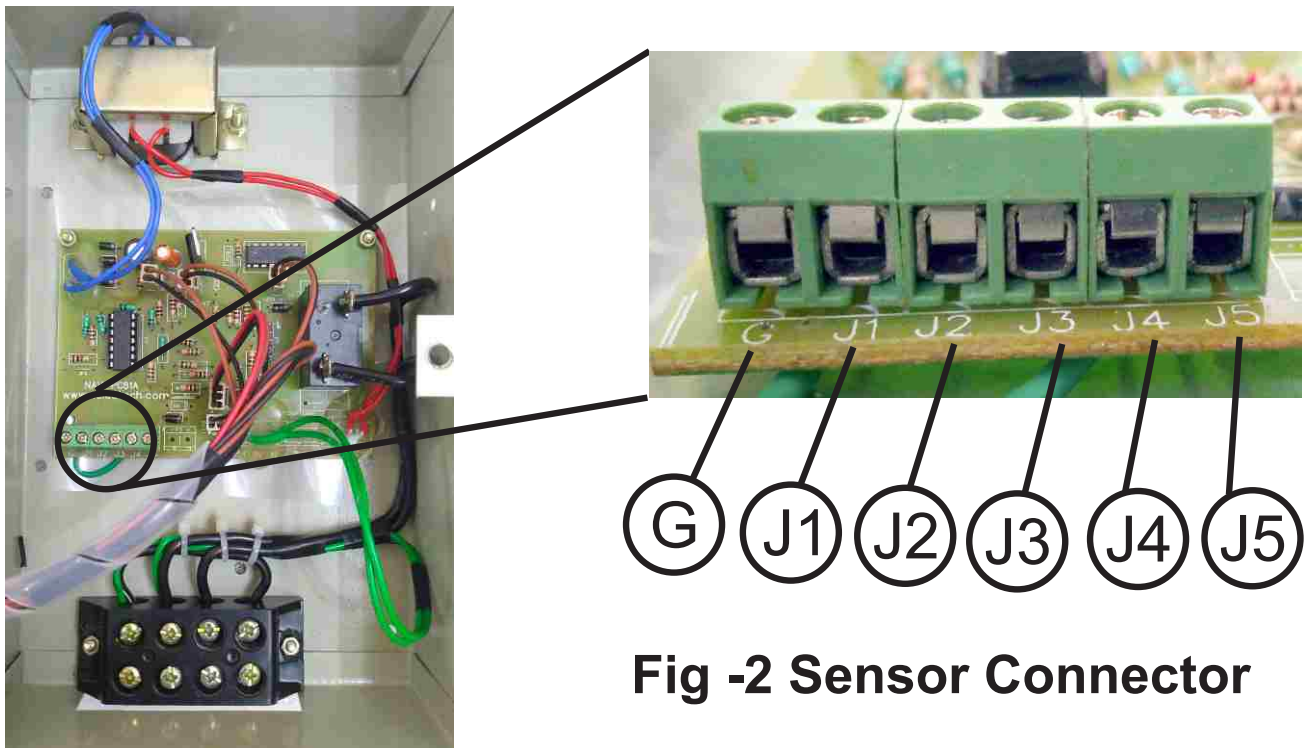


Fig -2 Sensor Connector

Point Shown In Fig -2

G- Sensor touches the ground surface of both tanks

J1- Sensor sense the overhead water level

J2- Sensor is just above the ground of tank

J3- Sensor used to sense flow of water in pipe connection to start the pump.

J4 -Sensor sense underground water level of the tank.

J5 -Sensor senses the flow of water in every 2 minutes to ensure that water is coming from a pump or not.

8. Sensor Connection

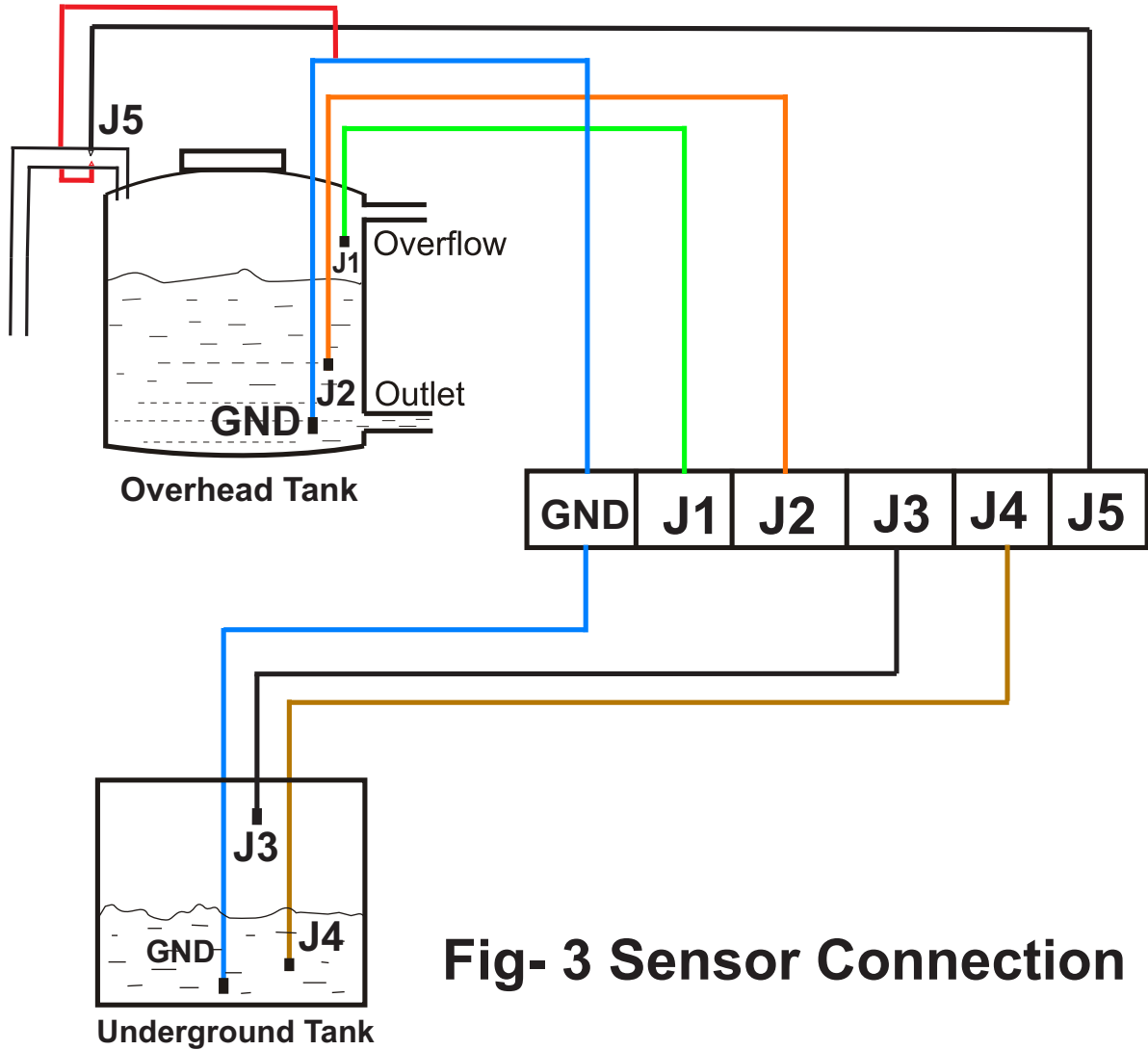


Fig- 3 Sensor Connection

9.Applications

- ✓ Home
- ✓ Hostels
- ✓ Hospital
- ✓ Industry
- ✓ Farm house
- ✓ Agriculture
- ✓ Restaurant
- ✓ Multi-storied apartments
- ✓ Commercial centers
- ✓ Factories

10. Specifications

Supply Voltage	150V -240V
Frequency	50 Hz
Power Consumption	1.5 Watt
Monthly Consumption	Less than 1 Unit
Operating Temp	10 to 90 Degree Celsius
Dimensions	20.5L ×13W ×7H
Material	Coated Ferrous
Weight	1 KG
Sensor	5