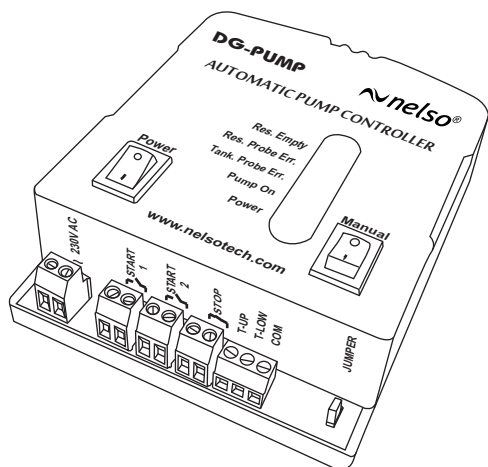


DG-PUMP

Digital Automatic Pump Controller
Model: DP-09



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DG-PUMP Installation Manual 2

General Description:

DG-Pump, Digital fully Automatic Water Pump Controller for your home and Industry. It continuously monitors the liquid level of the overhead tank. The Automatic Pump Controller controls the water pumps and turns it ON and OFF with respect to the water level in the tank. This auto-switching feature **Saves Manpower, Electricity, Water and Money**. Hence no need to operate your pump manually. Our system turns on the pump when the level of water in the tank goes below LOW level and OFF when the water touches the HIGH level. Thus no wastage of water and can save electricity bill and water charges.

Features:

Switches ON the pump when the water in the overhead tank goes below the pre-decided minimum level.

Switches OFF the pump when the water level in the overhead tank reaches the maximum level therefore prevents overflow.

DG-PUMP Installation Manual 3

Therefor no need to switch ON or switch OFF the pump manually.

No more Overflow thus saving water electricity & manpower.

Technical Specification:

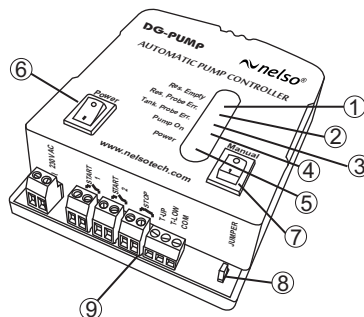
- Supply Voltage: 230 VAC, 50 Hz.
- Overhead Tank Water Level Sensor
- Internal Voltage: 12V DC
- Output: 3 potential free relay contact
- Contact Rating: 20 Amp. for START-1 and START-2 relay and 7 Amp. STOP relay
- Power Consumption: 1.2 Watt
- Monthly Consumption: Less than 1 Unit
- Temperature: -20 to + 70 degree Celsius
- Dimension: 136mm * 110mm * 40mm.
- Weight: 300gm

DG-PUMP Installation Manual 4

Applications:

Domestic
Bungalows
Multi-storied apartments
Hospitals
Factories
Hotels and restaurants
Commercial centers
All places with water tank

Description:



DG-PUMP Installation Manual 5

Points shown in FIG-1:

- 1) Reservoir empty Indication LED
- 2) Reservoir Probe Error Indication LED
- 3) Tank Probe Error Indication LED
- 4) Pump Running Indication LED
- 5) Power On Indication LED
- 6) Power On/Off Switch
- 7) Manual On/Off Switch
- 8) Jumper
- 9) Connector Strip

Jumper Configuration:

This device may run in two different modes:

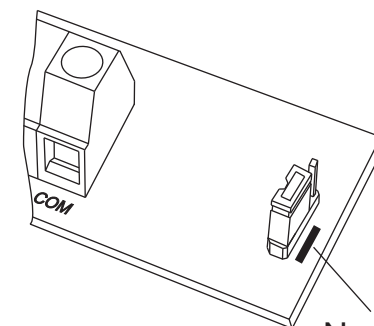


FIG-2

Normal Mode

DG-PUMP Installation Manual 6

Normal Mode: If the jumper is placed at the position as shown in FIG-2, the device will run in normal mode. In this mode "START-1" and "START-2" relay becomes on/close until the pump is on i.e "START-1" or "START-2" relay acts as a switch in series with the phase line. "STOP" relay remains inactive in this mode.

Extended Mode: In this mode the jumper should be placed as shown in FIG-3. "START-1" and "START-2" relay turns on/close for two seconds to start the pump and after that it becomes open.

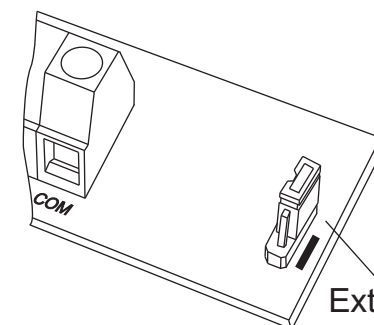


FIG-3

Extended Mode

To stop the pump “STOP” relay becomes open for two seconds and again it becomes close. Extended mode is used where two separate switches(Green and Red) are there to On/Off the pump in the panel box.

Connector Strip:

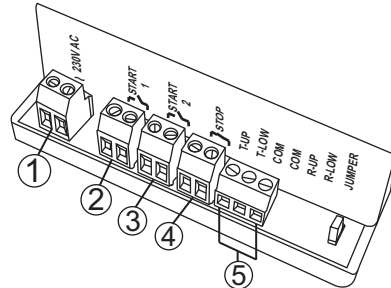


FIG-4

Points shown in FIG-4:

- 1) 230V AC Input
- 2) “START-1” Relay ‘NO’ contact
- 3) “START-2” Relay ‘NO’ contact
- 4) “STOP” Relay ‘NC’ contact
- 5) Tank sensor Up, Low and Common

Sensor Connection:

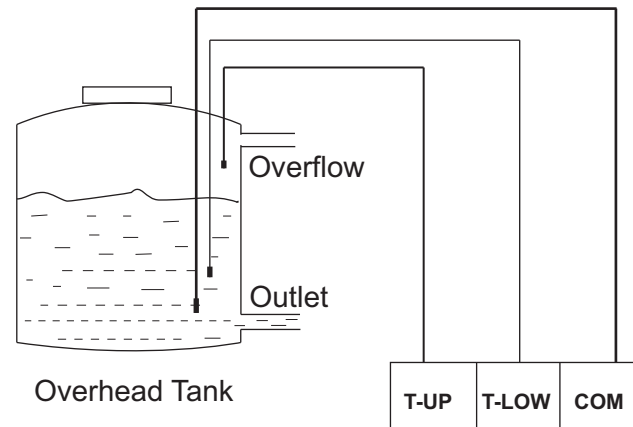
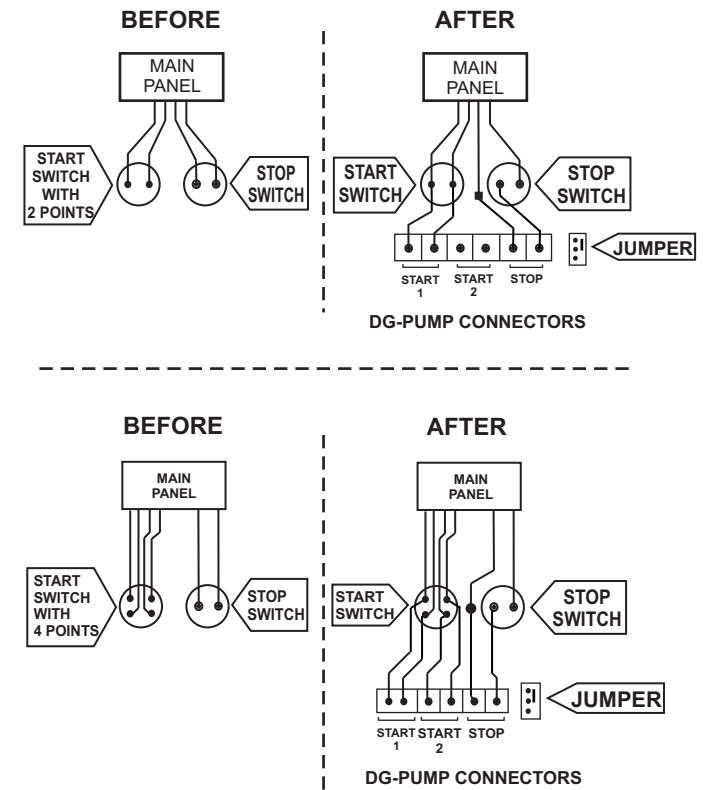


FIG-5

Control Panel with START and STOP switch.



Pump Start Relay: This is normally open(NO) contact. In normal mode this acts as a switch for turning the pump On/Off and remains close until the pump is on as shown in FIG-6. In extended mode it closes three times for two seconds each to latch the contactor and start the pump and then becomes open. In this mode it connects in parallel with START Switch(Green) of the Pump Panel Board.

Pump Stop Relay: This is normally close(NC) contact. In normal mode this relay has no function and remains unused. In extended mode it connects in series with STOP Switch(Red) of the Pump Panel Board. The contact of Pump Off Relay opens for two seconds to stop the pump.

Normal Mode Operation:

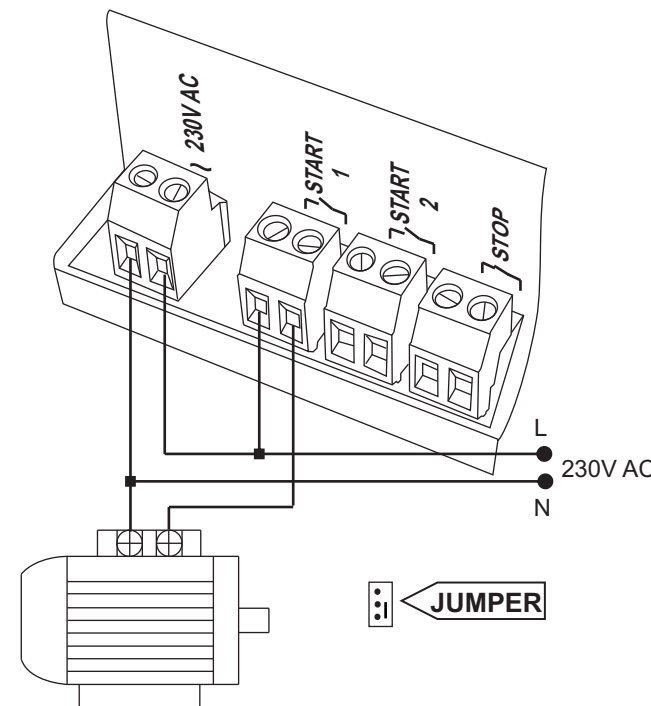


FIG-6

Customer Details:

Name: _____

Address: _____

Serial: _____

Date of install: _____

Warranty/Guaranty: _____

Free Service: _____

Installed By: _____

Tested By _____

Technician Signature _____

Date: _____