

# DG-PUMP

WiFi Mobile Operated Smart Automatic Pump Controller

Model: WPC100



## General Description:

WPC100, Digital Smart Wi-Fi enabled fully Automatic Water Pump Controller for your home and Industry. You can On/Off the pump from any part of the world with the help of Android App. from your mobile. Users can set five day-wise schedules with days of the week at which the pump will automatically be On and Off.

## Features:

This is Wi-Fi/IoT enabled device. You can On/Off the pump from your mobile.

Set five day-wise schedules of the week at which the pump will automatically be On and Off.

Get Notifications of all events and day-wise pump runtime reports within the App.

Password protection to secure the device from unauthorized use.

The device can be used as a timer or Manual Mode and a combination of both.

## Technical Specification:

Supply Voltage: 230 VAC, 50 Hz.

Internal Voltage: 12V DC

Output: 3 potential-free relay contact

Contact Rating: 16 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: 135mm \* 112mm \* 40mm.

## Getting Started:

Connect the device with your Pump Control Panel, 230VAC. Press the Reset Switch for 10 seconds until the Wi-Fi LED blinks 4 times to restore factory settings.

Turn off mobile data in your phone, Open Wi-Fi Settings and connect to SSID "Nelso-IoT".

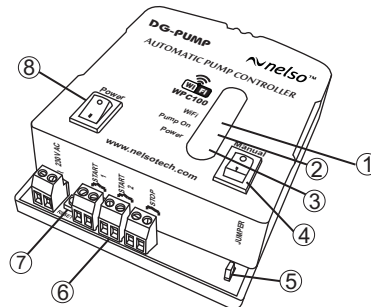
You will be prompted to "Sign in to a Wi-Fi network". Click on it. Now select the SSID from the list, enter the password and save. Now turn on mobile data or switch the Wi-Fi connection of your phone to your home SSID.

Download the App from Google Play Store and open it. Click "Add new device". Now enter serial no. manually or scan the QR Code from the label on the device.

Enter a name so you can recognize the device and click the Register button.

## Applications:

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



## Points are shown in FIG-1:

- 1) Wi-Fi LED
- 2) Pump Running Indication LED
- 3) Power LED
- 4) Manual On/Off Switch
- 5) Jumper
- 6) Connector Strip
- 7) Reset Switch
- 8) Power On/Off Switch

## Jumper Configuration:

This device may run in two different modes:

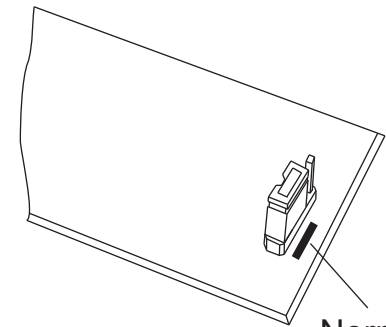


FIG-2

Normal Mode

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

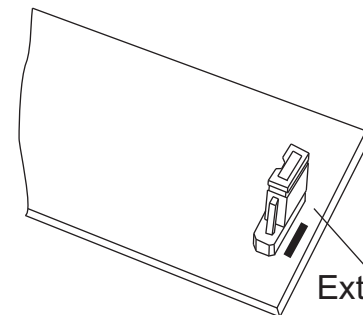


FIG-3

Extended Mode

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

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

**Connector Strip:**

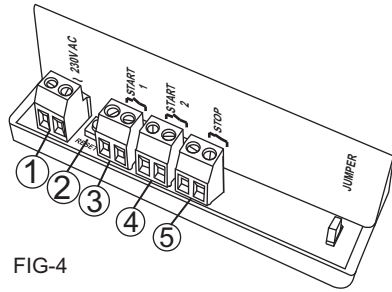


FIG-4

**Points are shown in FIG-4:**

- 1) 230V AC Input
- 2) Reset Switch
- 3) "START-1" Relay 'NO' contact
- 4) "START-2" Relay 'NO' contact
- 5) "STOP" Relay 'NC' contact

**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 closed until the pump is on as shown in FIG-6. In extended mode, it closes for two seconds to latch the contactor and start the pump and then becomes open. In this mode, it connects in parallel with the 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 the STOP Switch (Red) of the Pump Panel Board. The contact of the Pump Off Relay opens for two seconds to stop the pump.

**Wi-Fi LED:** Wi-Fi LED will glow continuously if the device is configured and connected to your home Wi-Fi Network which indicates the device is Online.

If you press and hold the Reset Switch, after 3 seconds it will blink two times and after 10 seconds it will blink four times. The functionality of the Reset Switch is described later.

**Normal Mode Operation:**

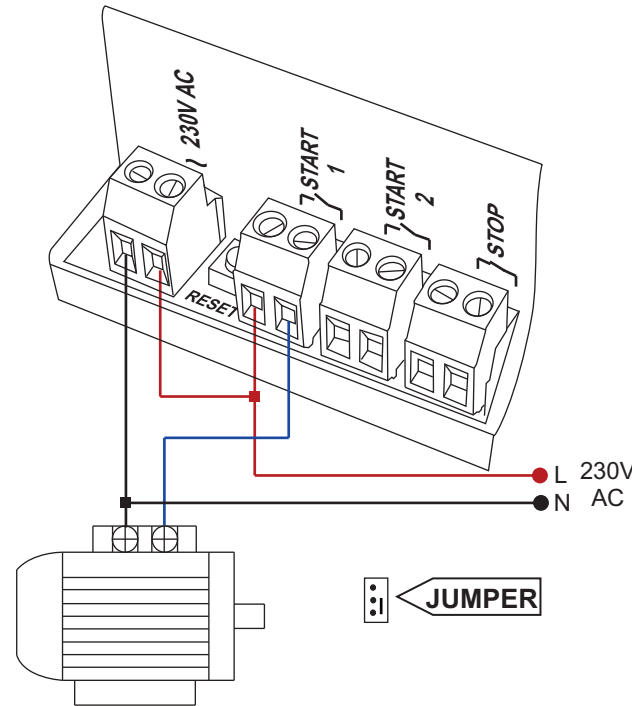
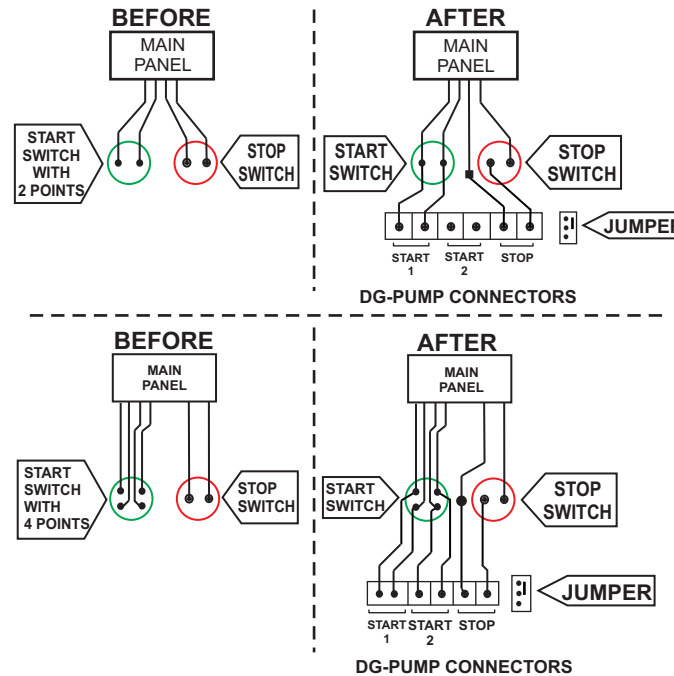


FIG-6

**Control Panel with START and STOP switch:**



**Android App Download:** Download free android app from the link or by scanning QR Code given below.



<https://play.google.com/store/apps/details?id=com.nelso.iotpumpcontroller>

**Reset Switch:** This switch has two functions. If you press and hold it, after 3 seconds, the WIFI LED will blink two times. Now release the switch. The saved Wi-Fi credentials will be deleted so you can configure the device with a new SSID and Password. If you hold the reset switch for 10 seconds the WIFI LED will blink four times and Restore Factory Settings.

**Save Wi-Fi Settings:** Power on the device. Now turn off mobile data and open Wi-Fi settings in your phone. Connect to SSID "Nelso-IoT". You will be prompted to "Sign in to a Wi-Fi network". Click on it. Now select the SSID from the list, enter the password and save. If not prompted automatically then open the browser, type 192.168.4.1 on the address bar and press enter.

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