

Nano Ganesh CM (NG – CM)-

Introduction:

Nano Ganesh CM (NG -CM) is a low cost, easy to use robust version of Nano Ganesh series of products for controlling the water pumps by a mobile phone. It has been appropriately designed for Indian farmers needing very basic remote control utility without complicated installation and features based on the huge experience of 60000 installations across India.

It is the GSM unit (electronics hardware) to be connected to the existing electrical starter or Auto Switch near the water pump. A user has to procure a valid SIM card for accepting incoming calls. NG CM is a classic example of how the modern intelligence can be modulated to a simplest form for easy operation by the Indian rural community. Ossian has overcome the major challenges in deploying M2M / IoT devices in the hazardous conditions with appropriate modern tools. Proven its robust performance of the basic electronics engine over the period of 17 years, the technology can be used easily by any person irrespective of gender, age, education and language.

A system has been built simplest for wiring to the existing starter such that any local pump technician can install the product with ease.

Functions of Nano Ganesh CM :

With the help of a mobile phone -

- *A farmer can switch on-off the water pump from any place by an active call
- * He can check the availability of the power at the water pump end
- * He can understand the on-off status of the water pump (Pump ON, Pump Off)
- * Manual Operation: A water pump can be manually started in case of absence of network



Technical Specifications:

1. Operating Mains Voltage: 230/415 V, 50 Hz AC. **NO BATTERY NEEDED.**
2. GSM operating frequency: 900/1800 MHz
3. GSM operating Power: 1 to 2 Watts at the time of radiations
4. Standby current consumption: 15 mA
5. Current Consumption at the time of SMS or CALL: 2 Amp peak
6. Output Control: An active Auto control phase of 230/415 V, when PUMP ON relay is energized.
7. Output Control contacts: 5 Amp capacity at 230/415 V.
8. Input Sensing: Any output phase of the starter 230/415 V
9. Functions available: Remote Control and acknowledgement of pump on/off by active call,
10. Storing of Mobile Number: Two mobile numbers can be stored on which alert SMS will come. Farmer's own mobile phone can send the commands of storing the mobile numbers.
11. Indicators: **Mains ON**, **Pump ON**, **Module Status**, **GSM Module Range**
12. **Size:** 155 mm (H) x 110 mm (W) x 70 mm (D), **Weight:** 700 grams (With Packing Box)
