

# GSM BASED PUMP CONTROLLER

This is a Remotely Controllable Pumpset Controller which has a built-in GSM modem which accepts only GSM SIM (Volte not supported) and will generate electrical signals to control pumpset starter or other equipments:

The System controls Pumpsets based on the user's choice to control it from any where with the help of his mobile.

✍ The system comes in different variant of power configuration to suite different types of pump starters.

✍ The system receives calls and simple and standard SMS messages from the user and will respond back to the user confirming the status and action taken by the system.

✍ The system has an Built-in antenna or external antenna for GSM signals which will aid in remote locations.

✍ The system has LED indication to indicate the Power status, Pump status and GSM Signal Strength.



## User's Manual:

After installing and switching ON the system, wait for the Signal Strength LED to stop blinking and become ON continuously. This means the system has acquired the mobile signal. If the Signal Strength LED blinks with 1 sec ON, 1 sec OFF means GSM signal is weak and system might not work properly.

**Step 1:** To set the user's mobile number to the system, send SMS to the system SIM as - **C**

On receiving the message, the system confirms the same by sending a return message to the sent mobile, with date and time stamp as

- **Number 1 Stored!**

**Step 2:** To switch ON the pumpset, send a message as - **1**

On receiving the message, the system confirms the same by sending a return message to the sent mobile, with date and time stamp as

- **Pump ON!**

The system has one Relay with potential free contacts, which will send **Start** command to the pumpset starter, for the set amount of delay ideally for 5 seconds as default. ( To set the ON delay for X Sec, send message - **DLY=X** ; X can be set from 1 to 30).

**Step 3:** To switch OFF the pumpset, send a message as - **2**

On receiving the message, the system confirms the same by sending a return message to the sent mobile, with date and time stamp as

- **Pump OFF!**

The system has one more Relay with potential free contacts, which will send **Stop** command to the pumpset starter.

The system has two modes of operation. Auto mode ON and Auto mode OFF. In Auto mode ON, the system restarts the pump ON, in case of power resumption after power failure after a delay of set value in minutes ( To set the restart delay for 5 Min send message as - **AUTO=5** ). In Auto mode OFF, the system will remain OFF in case of power failure and will not restart the pump after power resumption but it will inform the power resumption to the user.

**Step 4:** To set the system in Auto mode ON, send a message as - **3**

On receiving the message, the system confirms the same by sending a return message to the sent mobile, with date and time stamp as

- **Auto mode ON!**

**Step 5:** To set the system in Auto mode OFF, send a message as - **4**

On receiving the message, the system confirms the same by sending a return message to the sent mobile, with date and time stamp as

- **Auto mode OFF!**

## M.V. INSTRUMENTS

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## User's Manual Cont.. :

*The system has two modes of pump control Modes.*

**Mode 1** for Three Phase / Single Phase Borewell Pumpset Starters with ON and OFF push buttons. In this mode, the relay will provide 5 sec. ON signal when ON command is given and another relay provides OFF command.

**Mode 2** for single phase pumpset starter with direct power control switch. In this mode, the relay will provide continuous ON signal when **START** command is given, till it is switched OFF through command.

**Step 4:** To set the system in Mode 1, send a message as - **5**

On receiving the message, the system confirms the same by sending a return message to the sent mobile, with date and time stamp as  
- **Mode 1 ON!**

**Step 5:** To set the system in Mode 2, send a message as - **6**

On receiving the message, the system confirms the same by sending a return message to the sent mobile, with date and time stamp as  
- **Mode 2 ON!**

**Step 6:** To know the system complete status, send a message as - **7**

the system will provide **GSM M1 STATUS; PUMP: ON/OFF; Auto Mode: ON/OFF; MODE-1-RLY on for .... DLY; ON DLY: 5 sec; Signal:15-30**

*The system has a OFF timer Mode in which, switching the system ON and setting the duration, the system will automatically switch OFF the pumpset after the elapse of set duration.*

**Step 7:** To set the system in OFF Timer Mode, send a message as - **ONTIME=15** (Imp: no space in between)

On receiving the message, the system confirms the same by sending a return message to the sent mobile, with date and time stamp as  
- **Pump ON!**

The system will automatically switch OFF the pumpset after 15 minutes. (time can be set from 1 to 99 minutes)

To set the OFF Timer in **Hour mode** for higher time duration, send a message as - **HNTIME=2**

This will set the system for 2 Hour countdown mode and value can be set up to 99 Hours!

*The pump can also be started and stopped by sending a call to the system number. When called from the registered phone number, the system will cut the call after 4 rings to indicate that ON command is taken, (it will confirm with an SMS also). When called again, the system will cut the call after 2 rings to indicate that OFF command is taken (it will confirm with an SMS also).*

*It is possible to allow more than one Mobile to control the Pumpset. To set additional numbers to control the system, send message from **register** phone as*

- **2STN9999999999**

*same method can be used to set many more numbers to control the system (**3STN**, **4STN** & so on, followed by 10 digit mobile number)*

*To check the set numbers, send a message as - **SPN***

*To delete a set third number, for example, send a message as - **DEL=3** & so on.*

*Every time the when power resumes after power failure, when pump was switched ON, the system will send the Power resumption message.*

*For Prepaid SIM inserted in the system, to check the balance, send a message as - **\*123#***

Manufactured by:

**M.V. INSTRUMENTS**

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