**Congratulations!!** We thank you for purchasing GSM Dryrun. This user manual will help you guide step-by-step installation, operation and programming procedure. Please go through all instructions carefully prior to implementing.
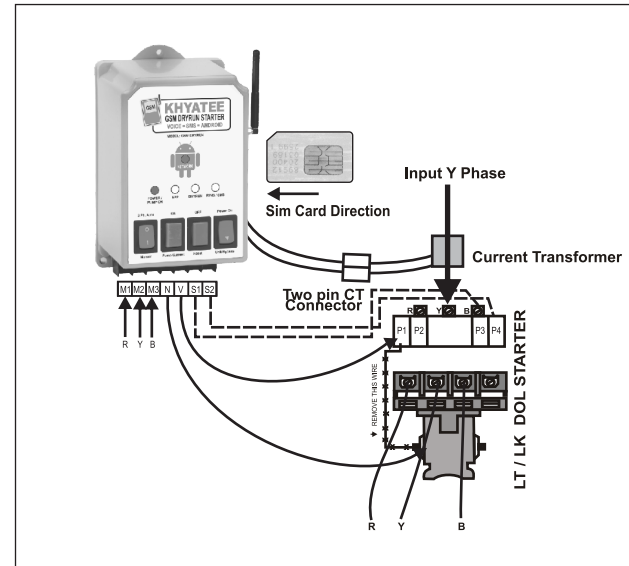
## 1. Installation

Install properly in dry place and protect from direct dust, water and sun light etc.

1) Mount the unit in your starter panel using two screws of 7.5x20 mm size.

2) Insert the SIM card in SIM card holder and push slowly so it will get locked and to remove also push slowly and pull with two fingers to take it out.

3) Connect / Place antenna such that you get maximum signal strength.

4) Ensure that SIM card is with proper Validity, Balance, and Network Signals at site and please put SMS pack in the card, so that the transaction will be economical.

**Note:**
1. Kindly use SIM card which works on 2G (except Jio) any service provider and which has good network at site.
2. Kindly keep some balance and charge with SMS pack

## 2. Electrical Connections



### Current transformer (CT) Wiring

1 Switch OFF motor or power to starter

2 Pass Y Phase cable from input only one time through CT & connect to 'Y' terminal of starter. Terminal then push and connect CT connector with connector coming from unit.

### Common wiring connection for all with DOL / STAR DELTA STARTER

1 There are seven wires are coming from unit

2 Connect M1, M2, M3 wires to R, Y, B of input terminal of your electrical DOL / Semi or fully automatic star delta starter.

3 Connect white wires S1, S2 to P3 & P4 (across ON push button).

a. Select one of the following for further connections

**If Only DOL Starter then**

a. Remove link between P1 and Coil

b. Connect one black wire (V) to P1 another black wire (N) to Coil

**If Only Semi / Fully Automatic Star Delta Starter then**

a. Remove link between P1 and B phase

b. Connect one black wire (N) to P1

**Note: If SPP LED becomes ON then interchange R and Y phase from input to correct the Phase sequence**

## 3. Pump Current Setting

**From phone call:** Make a phone call to unit and press 1111, unit will switch on the pump and all LEDs will blink once. Unit will measure actual pump current and set it and all LEDs will blink once again.

## 4. Add and delete Registered User No.

Make phone call to unit from mobile phone whose no you want to add... Once call is lifted by unit press ****. Unit will add and save mobile no. & Phone call will be disconnected. To delete make phone call and press #### to delete the number. (Maximum 4 users can be added)

## 5. Change Existing Password

The unit is protected against unauthorized operation by 4 digit password. '5678' is the factory set default password. Please change password for your safety & make a note of it.

To change password make a phone call to the unit press 4-digit password and then press 5555 to change and create new password.

## 6. Operation

### Auto mode (Recommended mode)

You can select this mode by calling the unit and pressing 4444. In auto mode, motor will start automatically on phase return or power return.. You can start or stop motor from mobile phone also.

### Manual mode

You can select this mode by calling the unit and pressing 6666. Power ON timer will not be available to auto start the motor you have to start manually. You can start & stop motor from mobile phone also.

## 7. MOBILE PHONE KEY FUNCTIONS

| SR NO | MOBILE DIAL PAD KEYS | ACTION |
|---|---|---|
| 1 | 1111 | Pump current Setting |
| 2 | 2222 | Callback ON / OFF |
| 3 | 3333 | Password ON / OFF |
| 4 | 4444 | Auto Mode ON |
| 5 | 5555 | Change Existing Password |
| 6 | 6666 | Manual Mode ON |
| 7 | 7 | Pump ON |
| 8 | 8 | Verbal Current information |
| 9 | 9 | Pump OFF |
| 10 | 0 | Present Status |
| 11 | * | Fault Reset |
| 12 | **** | Make Call and Press  **** to ADD Phone Number as Authorized User |
| 13 | #### | Make Call and Press  #### to DELETE Authorized User Phone Number |

**SMS list** 1. XXXX: - 4-digit password for mobile starter 2. *(Star):- Starting code  3. # (Hash):- Ending code  4. Add 8 to 15 digit Mobile number only (do not add zero at start) **Following SMS should be sent to SIM number of mobile starter**

## 8. ON/OFF/AUTO/RESET ETC

| SR NO | ACTION | SMS | REMARK |
|---|---|---|---|
| 1 | Pump On | *5678ON# | |
| 2 | Pump Off | *5678OFF# | |
| 3 | Real Time Status | *5678RTS# | |
| 4 | Auto Mode On | *5678AM# | |
| 5 | Manual mode On | *5678MM# | |
| 6 | Fault Reset | *5678RST# | |
| 7 | Add User No | *5678A+91xxxxxxxxxx# | xxxxxxxxxx is 10 Digit Mobile No. |
| 8 | Existing User list | *5678L# | |
| 9 | Delete Existing user no | *5678D+91xxxxxxxxxx# | |

## 9. PROTECTION SETTINGS

| SR NO | ACTION | SMS | REMARK / RANGE |
|---|---|---|---|
| 1 | Parameter Setting Details | *5678PSD# | |
| 2 | 3 Phase Dryrun Trip amp. | *56783PHDR10.0# | 2 Amp – 60 Amp |
| 3 | 2 Phase Dryrun Trip amp. | *56782PHDR10.0# | 2 Amp – 60 Amp |
| 4 | Set Dryrun Percentage | *5678DRY80# | 60% - 95% |
| 5 | Dryrun Bypass | *5678DRY0# | |
| 6 | 2 Phase On / SPP Bypass | *56782PA# | |
| 7 | 2 Phase Off / SPP On | *56782PD# | |

## 10. TIMER SETTINGS

| SR NO | ACTION | SMS | REMARK / RANGE |
|---|---|---|---|
| 1 | Power On Timer | *5678POT60# | 3 – 300 Seconds |
| 2 | Star – Delta Timer | *5678SDT10# | 3 – 60 Seconds |
| 3 | Motor On timer(One time) | *5678ON10# | 5 – 720 Minutes |
| 4 | Dryrun Auto-Start timer | *5678DAT120# | 5 – 720 Minutes |
| 5 | Dry run Auto-start timer OFF | *5678DAT000# | |
| 6 | Repeat run timer ON | *5678RRT120# | 5 – 999 Minutes |
| 7 | Repeat run timer OFF | *5678RRT0# | |

## 11. PASSWORD / SMS / CALL BACK / MISS CALL ETC

| SR NO | ACTION | SMS | REMARK |
|---|---|---|---|
| 1 | Password Protection On | *5678PPA# | |
| 2 | Password Protection Off | *5678PPD# | |
| 3 | Change Password | *5678NPxxxx# | xxxx 4 digit password |
| 4 | Miscall On | *5678MCA# | |
| 5 | Miscall Off | *5678MCD# | |
| 6 | SMS On | *5678SMSA# | |
| 7 | SMS Off | *5678SMSD# | |
| 8 | Call back for all condition | *5678CBA# | On all fault conditions, power return & motor on-off |
| 9 | Call back for fault only | *5678CBF# | |
| 10 | Call back only for power return | *5678CBP# | |
| 11 | Call back off | *5678CBD# | |