

GSM ECO

USER MANUAL

GSM Mobile Motor Controller



Remote pump control | Protection | Timer | GSM calling & SMS

Customer Edition • English

Command accuracy

Calling/IVR and SMS commands in this manual are specific to GSM ECO. Use the exact command formats shown in the command sections.

1. Front Panel Indicators & Switches

Use the numbered reference below to identify each indicator and switch.



No. / Front Panel Item	Function
1 Power / Pump / ON	Shows controller power / pump ON status.
2 Line Fault	Indicates an abnormal incoming supply / line condition.
3 Timer	Glowes when a timer-related function is active.
4 Overload / Dry Run	Indicates overload or dry-run protection event.
5 Network	Shows GSM network / communication status.
6 Power ON / Bypass	Power ON = normal GSM ECO operation. Bypass = direct operation from the existing starter.
7 Auto / Manual	Manual requires a fresh start each time. Auto can restart after power return if the pump was running before the interruption.

2. First-Time Setup

Complete these checks before customer handover.

01 Check site and starter

Confirm the starter and wiring are in good condition and suitable for the motor.

02 Prepare the SIM

Use an active GSM SIM with calling and SMS service, valid balance / plan and usable network coverage.

03 Prepare for SIM insertion

Before inserting or removing the SIM, keep the Power ON / Bypass switch in BYPASS and the Auto / Manual switch in MANUAL. In GSM ECO, Auto mode can keep the battery supply active, so do not insert or remove the SIM while the unit is left in Auto.

04 Complete electrical wiring

Connect Red / Yellow / Blue supply wires, White ON-relay wires, Black OFF-relay wires and the CT exactly as described in the Connection & Wiring section below.

05 Switch ON the controller

Place the Power ON / Bypass switch in normal Power ON position and energize the system.

06 Check indicators

Confirm that Line Fault is not active and that the Network indicator reaches normal network status.

07 Register customer number

Call the GSM ECO SIM number and enter 2222 to register the calling number. Use 3333 to deregister. Then test ON (7), OFF (9), Status (0) and protection behaviour.

Safety

Installation and commissioning should be carried out by a qualified electrician / technician. Isolate electrical power before opening the starter or changing wiring.

3. Connection & Installation Wiring

Functional wiring guide for GSM ECO. Follow the wire functions exactly and complete all electrical work with power isolated.

Wire / Part	Connection	Function / Instruction
Red / Yellow / Blue	3-phase supply	Connect the Red, Yellow and Blue wires to the corresponding three-phase supply lines.
White pair	Potential-free ON relay	Connect across the starter ON / START switch. The GSM ECO operates this potential-free relay contact to start the motor and for the programmed Star Timer / start interval.
Black pair	Potential-free OFF relay	Connect the Black pair in series with the starter OFF / STOP switch. The contact remains normally closed while the motor is in ON condition and opens when the GSM ECO gives an OFF command, stopping the motor.
CT coil	Current sensing	Pass the supply / motor wire through the CT coil so the GSM ECO can sense pump current.
SIM card	GSM communication	Insert the active SIM in the GSM ECO SIM holder only after placing the switches in the safe SIM-insertion positions shown below.

Simplified connection sequence

01 Set safe switch positions

Before inserting or removing the SIM: Power ON / Bypass switch = BYPASS; Auto / Manual switch = MANUAL. This is important because the ECO model battery can remain ON in Auto mode.

02 Connect three-phase supply

Connect the Red, Yellow and Blue GSM ECO wires to the corresponding three-phase supply lines.

03 Connect motor-start relay

Connect the White potential-free relay pair across the starter ON / START switch.

04 Connect motor-stop relay

Connect the Black potential-free relay pair in series with the starter OFF / STOP switch. It remains normally closed while the motor is ON and opens when an OFF command is given.

05 Install the CT

Pass the supply / motor wire through the CT coil for pump-current sensing.

06 Insert SIM and power up

Insert the SIM, then return the Power ON / Bypass switch to POWER ON. Select Auto or Manual as required, power the system and check Line Fault / Network indications before remote testing.

4. Normal Operation

Customer operating sequence for everyday use.

01 Normal remote operation

Keep the left switch in Power ON. Select Auto or Manual as required.

02 Start the pump

Calling: call the GSM ECO device and press 7. SMS: send *ON#.

03 Check status

Calling: press 0. SMS: send *STATUS#.

04 Stop the pump

Calling: press 9. SMS: send *OFF#.

05 After power failure

In Auto mode, the controller can restart the pump after power returns if the pump was running before the interruption and supply/protection conditions are healthy.

06 Manual mode

In Manual mode, the pump must be started again manually after a power interruption.

Motor protection & fault indication

Condition	Customer action
Line Fault	Check incoming three-phase supply and wiring before running the pump.
Overload	Check motor load, starter, pump condition and overload setting.
Dry Run	Check water availability and dry-run setting before restarting.
Repeated Tripping	Do not repeatedly restart. Find the actual cause first.
Network Issue	A network problem affects remote operation; it is not the same as a motor electrical fault.

5. Calling / IVR Commands

Call the SIM number installed in GSM ECO, listen to the voice prompt, then press the required key / code.

Function	Key / Code	What it does
Pump Current Set	1111	Sets the pump current reference through the calling function.
Register Number	2222	Registers the mobile number calling the unit.
Deregister Number	3333	Removes / deregisters the mobile number through the calling function.
Motor ON	7	Starts the motor / pump.
Motor OFF	9	Stops the motor / pump.
Motor Status	0	Announces / provides the current motor status.
Fault Reset	*	Resets the fault when a reset is permitted / requested.

Calling tip

Use 1111 only when pump current setting is required. Register the customer calling number with 2222 before normal use.

6. SMS Commands

Every command starts with * and ends with #. Send the SMS to the GSM ECO SIM number.

Function	SMS Command	Result / Remark
Add registered user mobile number	*A9822012345#	Replace the example number with the actual customer mobile number.
Delete registered user mobile number	*D9822012345#	Replace the example number with the number to be deleted.
SMS format list help	*HELP#	Replies with the SMS command / format list.
Get registered mobile number list	*LIST#	Replies with the registered phone-number list.
Start the motor	*ON#	Starts the motor.
Start motor with timer (1-999 min)	*ON60#	Starts the motor for the specified timer period. Example: 60 minutes.
Stop the motor	*OFF#	Stops the motor.
Pump status at site	*STATUS#	Replies with pump / site status.
Starter setting details	*SETTING#	Replies with starter setting details.
Set pump current	*SPC#	Sets / captures pump current.
Reset fault	*RESET#	Resets a permitted fault.
Set overload trip percentage	*OL50#	Range 20% to 80%; 0 = bypass.
Set dry-run trip percentage	*DRY75#	Range 60% to 95%; 0 = bypass.
Set power-on timer	*POT60#	Range 1 sec to 300 sec.
Set star-delta timer	*SDT10#	Range 1 sec to 60 sec.
Start outgoing SMS from unit	*SMSON#	SMS facility ON.
Stop outgoing SMS from unit	*SMSOFF#	SMS facility OFF.

6. SMS Commands - Continued

Notification, password, SIM balance and starter-type commands.

Function	SMS Command	Result / Remark
Misscall facility activated	*MCA#	Misscall facility ON.
Misscall facility deactivated	*MCD#	Misscall facility OFF.
Ring facility only for fault	*RFE#	Call only on fault.
Ring facility for power ON & fault	*RFA#	Call on power ON and fault.
Ring facility OFF	*RFD#	Ring facility OFF; default OFF.
Password protection OFF	*PASSOFF#	Password protection OFF; default OFF.
Password protection ON	*PASSON#	Only registered users are allowed.
SIM balance check	*BAL 123#	Use with the service-provider balance code, if supported.
SIM balance check – alternate	*BAL 123* 1#	Alternate balance-check format depending on service provider.
1-phase relay type without volt/amp	*1PRT#	RL1 = ON, RL2 = 9 sec.
1-phase relay type panel / digital panel	*1PDT#	RL1 & RL2 ON = 2 sec.
1-phase contactor type panel	*1PCT#	RL1 = ON, RL2 = 2 sec.
2-phase regular starter	*2PRT#	RL1 = ON, RL2 = 9 sec.
2-phase panel / phase changer + starter	*2PCT#	RL1 = ON, RL2 = ON.
3-phase relay type without volt/amp	*3PRT#	RL1 = ON, RL2 = 9 sec.
3-phase relay type digital panel	*3PDT#	RL1 & RL2 ON = 2 sec.
3-phase contactor type ON	*3PCT#	RL1 = ON, RL2 = 9 sec.

7. Quick Troubleshooting

Simple checks before calling support.

Problem	Check / Action
No network / remote control not working	Check SIM validity, network coverage, SIM insertion and whether call/SMS service is active.
Line Fault indicator ON	Check incoming supply and wiring. Do not repeatedly start the pump until corrected.
Pump trips on Overload / Dry Run	Check motor current, pump load, water availability and protection setting.
Pump does not auto-restart after power return	Confirm Auto mode is selected and the pump was not intentionally switched OFF before power failure.
Pump works only from starter in Bypass	Return the left switch to Power ON for normal GSM ECO control, then check network and controller operation.
Repeated or unclear fault	Keep the pump OFF and contact Kewintech support with a clear photo/video of controller indicators and starter.

Handover check: Test Motor ON/OFF, Auto/Manual, Bypass, CT current sensing, network availability and fault indication with the customer present.

Customer Support

Support Item	Details
Company	Kewintech Private Limited
Helpline / WhatsApp	9812275833
Website	www.kewintech.com
Product	GSM ECO Mobile Motor Controller

Installation / Handover Record

Field	Details	Field	Details
Customer Name	_____	Mobile Number	_____
Motor / Pump HP	_____	Starter Type	_____
Device SIM Number	_____	Installation Date	_____
Technician	_____	Customer Sign	_____