GSM Controller

- Ideal for ON /OFF Switching of load remotely using Mobile Handsets
- Suitable for both 1 Phase and 3 Phase installations
- Flexible antenna positioning to get proper signal strength Load can be operated in GSM Auto Mode for
- SMS alerts for ON/OFF status, Power fail, Power on, Phase error, Error recovery, Phase fail, Contactor pick-up fault and SIM balance
- Anti-theft protection
- Switching enabled by number of missed rings or sending SMS to the device
- Load can be operated in GSM Auto Mode for automatic operation, Timer Mode or Multiple
 Daily Timer Mode for specific duration of operation
- One Master & two Monitor numbers can be configured



Ordering Information

Cat. No.	Description
26A11AV	180 - 500 VAC, Module For Mobile Starter with wire type antenna
26A21AV	85 - 265 VAC, Module For Mobile Starter with wire type antenna
26100V0 (Accessory)	Wire type antenna

GSM Controller

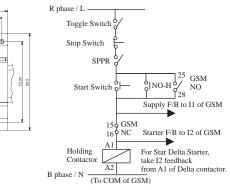


Cat. No.	26A11AV					
Parameters						
Supply Voltage (中)	180V AC to 500V AC (For Single Phase : Connect Live to R or Y & Neutral to B & COM terminal of Controller)					
Frequency	50-60 Hz					
Power Consumption (Max.)	10 VA					
Initialisation Time	45 Sec					
Contact Ratings	Terminal 15 & 16 – NC , Terminal 25 & 28 – NO, 5A @ 250V AC / 30V DC (Res)					
FUNCTIONAL CHARACTERISTICS :						
	LED	INDICATION	DEVICE STATUS			
	ON (Green)	ON	Master number configured.			
		Blinking @ 500 m Sec	GSM modem in factory default mode			
LED Indications	CFG (Red)	Blinking @ 500 m Sec	GSM modem in configuration mode			
	N/W (Green)	Flash every 800 m sec	Not registered with N/W Registered with N/W			
		Flash every 3 sec Both ON	Starter ON			
	11 & I2 (Yellow)	Both OFF	Starter OFF			
	TT & IZ (TEIIOW)	I1 Blinking @ 500 m Sec	Phase fail			
		Both blinking	Power fail indication till super capacitor back up			
	Tx/Rx (Green)	Randomly Blinking	Communication between CPU and Modem			
		Flash every 400 m Sec	SIM card not detected			
GSM Modem	Quad band 850MHz,9	00MHz / 1800MHz,1900MHz				
Operating Temperature	0° C to +60° C					
Storage Temperature	-20° C to +70° C					
Humidity (Non Condensing)	95% (Rh)					
Enclosure	Flame Retardant UL94-V0					
Dimension (W x H x D) (in mm)	72 X 90.5 X 65					
Weight (unpacked)	220 g approx.					
Mounting	DIN rail / Base					
Certification						
Degree of Protection	IP 20 for Terminals, IP 30 for Enclosure					
EMI / EMC Harmonic Current Emissions ESD Radiated Susceptibility Electrical Fast Transients Surges Conducted Susceptibility Voltage Dips & Interruptions (AC) Voltage Dips & Interruptions (DC) Conducted Emission Radiated Emission						
Environmental Compliance Cold Heat Dry Heat Vibration Repetitive Shock Non-Repetitive Shock	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-27					

MOUNTING DIMENSIONS (mm)

NEEMA COP

CONNECTION DIAGRAM TERMINAL TORQUE & CAPACITY



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Ø 3.5 mmTorque - 0.54 N.m (5 Lb.in)
Terminal screw - M2.5Ø 1 x 0.2....1 mm2 Solid Wire
Single Wire Ferrule.Ø 2 x 0.2....1 mm2 Insulated
Twin Wire Ferrule.AWG1 X 24 to 12

Note: It is strongly recommended to use Single Phasing Protection Device (SPPR) for Motor Protection with GSM Controller

Note: This Product is only available for Sale Outside India

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Configuration Steps

Step 1 :	Insert SIM card in the slot provided and connect Antenna.	Step 6 :	Call the device number, call will be disconnected after 1 to 2 rings.
Step 2 :	Power on device & wait for 45 sec. ON (Green) LED will start blinking, indicating that device is in factory default mode. After every power on ,device will take 45 sec for	-	After call gets disconnected, ON LED stops blinking & becomes permanently ON. CFG LED turns OFF. This will indicate that, master number has been configured in the device. User will receive SMS of "Mobile number updated".
Step 3 :	initialization during which user should wait. Ensure that NW (Network) LED is flashing after every		To configure the monitor numbers if required, send query 55 <space>Mobile no.1<space>Mobile no.2 from the master number.</space></space>
	3 sec. It means device is registered with inserted SIM N/W. If NW LED is blinking faster, it means that the device is not registered with SIM NW & hence not ready for operation.		After installing device for the first time, set the device clock by sending query "16". User will receive SMS," 16, "TIME ALREADY SET" or "16, "TIME SET TO, DT: 15/12/13, TM:10:10:50 AM".
Step 4 :	Press the CFG (Configuration) key on the device till CFG (RED) LED starts blinking. The device goes in the configuration mode to configure the master number in the		If device is connected to single phase supply, then configure device for single phase supply by sending query 18 <space>1. User will receive SMS - 18, SYSTEM CONFIGURED FOR 1-PHASE SUPPLY.</space>
device.			If device is connected in Semi Automatic Star Delta starter then configure the device in
Step 5 :	CFG LED will blink for 3 min, user should configure the master number within this time.		SASD system by sending query 77 <space>0. User will receive SMS - 77, "SYSTEM CONFIGURED FOR SASD"</space>
		Step 12 :	User should refer the "General SMS Queries" for functional details of the device.

General SMS Queries : (To be sent only from Master number to Device number)

QUERY	DETAILS				
Functionality Queries	Functionality Queries				
Call to device number or send SMS 11 <space>0</space>	After 3-4 rings device cuts the call & turns ON the starter or after receiving SMS 11 0 device turns ON the starter.				
Call to device number or send SMS 00	After 5-6 rings device cuts the call & turns OFF the starter or after receiving SMS 00 device turns OFF the starter.				
11 <space>1 to 47</space>	Starter ON with timer. Here 1=30 min, 2=1hr, 3=1.5hrs 47=23.50hrs. e.g. 11 4 query will turn on starter for 2 hrs from the time device receives the query.				
22 <space>ON time1 <space>OFF time1, ON time2<space>OFF time2, ON time3<space> OFF time3, ON time4 <space>OFF time4</space></space></space></space></space>					
33 <space> 0 or 1</space>	0 - Auto Time Update Disable / 1 - Auto Time Update Enable. (Factory default)				
66 <space> 0 or 1</space>	0 - GSM Auto Mode Disable (Factory default) / 1 - GSM Auto Mode Enable.				
88	To know the available balance in prepaid account. (Note: Before sending this query first set the balance code by sending query 14).				
99	To know current status of device.				
INFO	To know all frequently used queries.				
Configuration Queries					
44 <space>xxxx (xxxx denotes last four digit of previous master number)</space>	To replace the previous master number with new one, send query 44 <space>xxxx from a new number which is to be configured as Master. (Note: 1. Before sending this query first press configuration key on device till CFG LED starts blinking 2. After this query, previously stored Monitoring numbers will be deleted & new monitoring numbers need to be configured)</space>				
55 <space>First number <space>Second number</space></space>	For pairing Monitoring numbers. By sending this query Master number can pair 2 monitoring numbers with device. (Note: While entering Monitor numbers, ensure that correct number is entered. Numbers can be verified in response SMS).				
55	To remove monitor numbers, send only 55 query to device.				
77 <space>0</space>	Starter Configuration - SASD. Send this query if GSM is installed in Semi Automatic Star Delta Starter.				
77 <space>1</space>	Starter configuration - DOL/FASD (Factory default).				
14 <space>balance code</space>	Set balance code.Balance code depends on Service provider. e.g. 14 *121# (*121# is balance code).				
15 <space> 0 or 1</space>	0 - "AUTO BALANCE INFO SMS OFF" / 1-"AUTO BALANCE INFO SMS ON" (Factory default).				
16	To set device clock if there is difference in local time and Device time. Device clock will be set as per time stamp received in SMS.				
17	To know configured master & monitor numbers.				
18 <space>1</space>	To configure the device for single phase supply.				
18 <space>3</space>	To configure the device for three phase supply (Factory default).				
Troubleshooting / Secur	ity Queries				
79	To set device in factory default mode. Before sending this query first press configuration key on device till CFG LED starts blinking				
12	To check signal quality.				
13	To know IMEI number of the device.				

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NOTE : For monitor numbers only INFO, 12 , 44 & 99 queries are applicable.