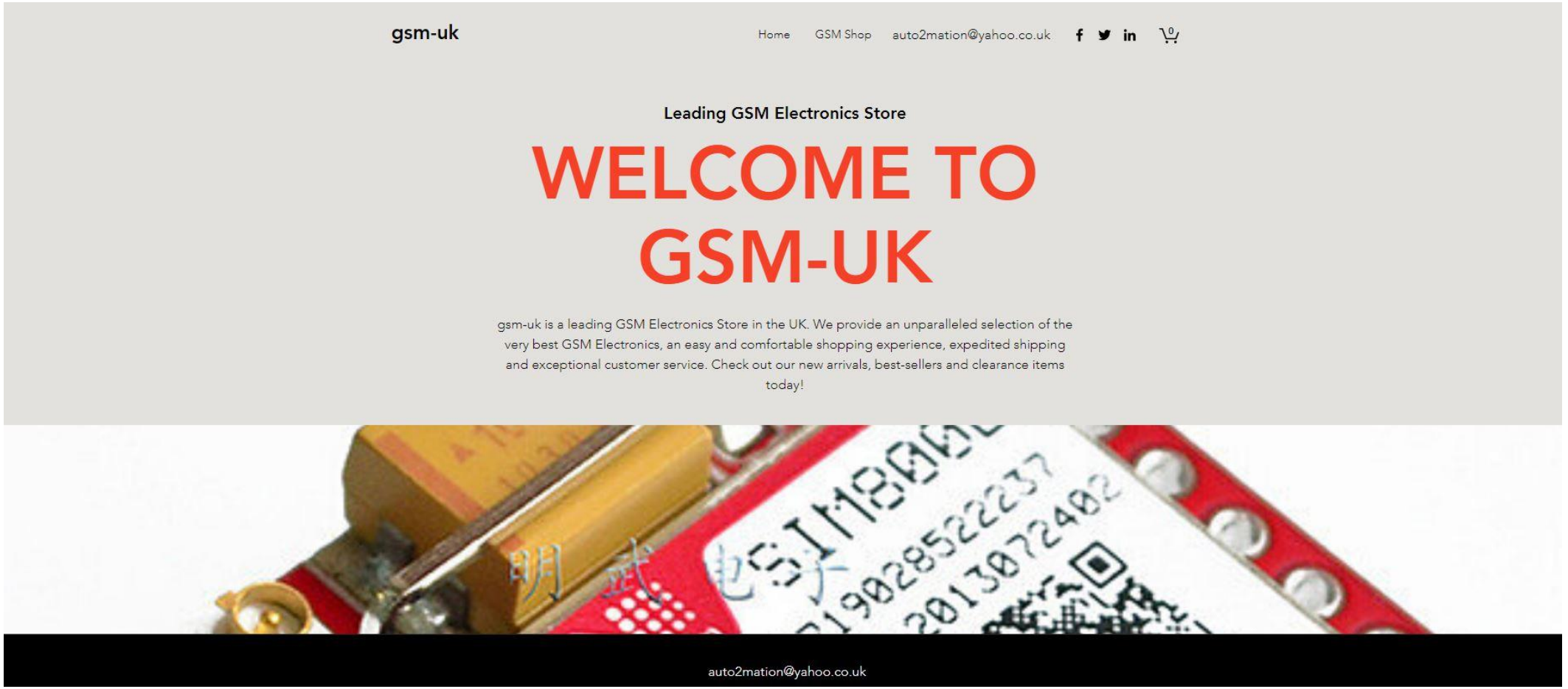
GSM V18.0q 2018



GSM How it Works

Send a Message via you Phone

Network Picks message up

GSM gets message of Network

GSM does the operation

1

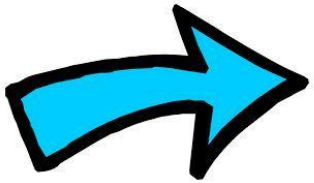
2

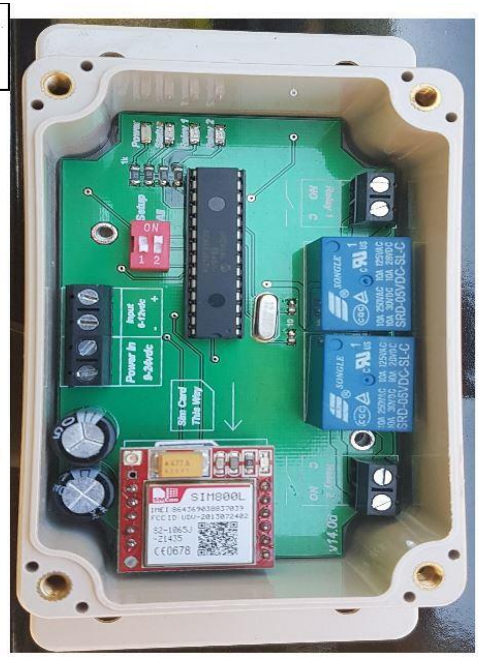
3

4

Other Brands – Our GSM

www.gsm-uk.net





www.gsm-uk.net
Support

China,
Philippines,
Malaysia

No Support

UK

Fully Supported

www.gsm-uk.net
Design

China,
Philippines,
Malaysia
All 3rd Party Sellers

3rd Party

UK

We Design, Build and program our GSM's thus offering unrivalled support and backup

Done in UK

GSM Supply

Power supply to all our range of GSM's is ideally 12vdc with a Min 1 Amp Capacity available.
Min 9vdc – Max 15vdc

Plug Top Style

Switch Mode

Battery

GSM Networks

A list of all networks tested with our GSM's :- PAYG

O2
Virgin
T Mobile
EE

Known Networks requiring money up front before use :- PAYG

Vodaphone
3
Orange
Lebara
Tesco
Giff Gaff

GSM Cased Versions IP Rating

IP Rating Explained :-

Our Units are IP54, ideally we recommend if using out doors to place in a further weather proof enclosure.
If not directly out doors and only get splashed etc… our enclosure should be fine.
When mounting always face the aerial and all glands to the bottom of mounted enclosure.

IP RATING CODES

Protection from Solid Objects		Protection from Moisture	
0	Not protected	0	Not protected
1	Larger than Ø50mm	1	Dripping water
2	Larger than Ø12mm	2	Dripping water when titled at 15°
3	Larger than Ø2.5mm	3	Water spray
4	Larger than Ø1.0mm	4	Water splash
5	Dust protected	5	Water jets
6	Dust tight	6	Heavy seas
		7	Immersion from 0.15-1.00m depth
		8	Submersion below 1.00m depth

GSM Mounting Positions

Facing Downwards

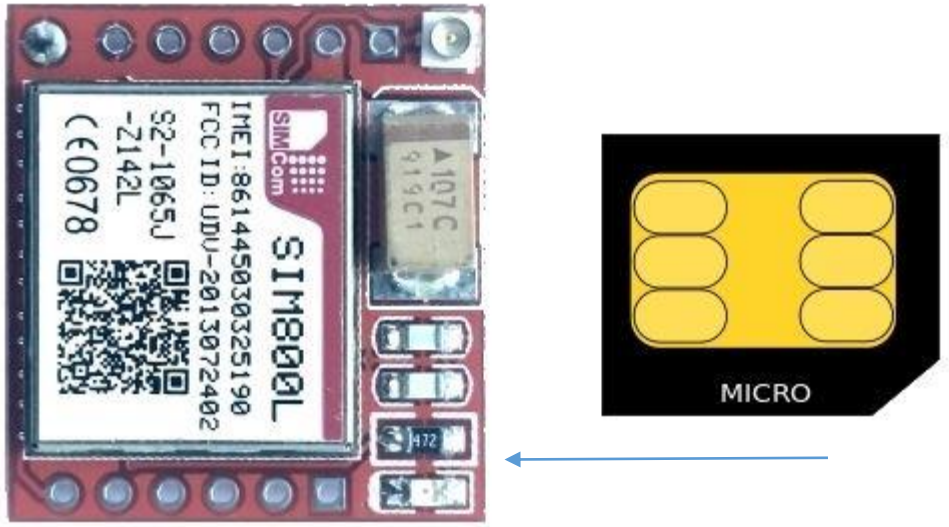
GSM Accessing the Case

Use No 1 Posidrive Screwdriver

GSM Terminals

Ideally use 2.5mm Flat Screwdriver for terminals inside the GSM Case.

GSM Inserting Sim



When pushing in Sim card it will retain position, push again and it will release the Sim. The Sim holder is on a spring catch, release system. DO NOT force it out !

GSM Connecting the Aerial

Remove Red Rubber Cover

Should Look Like This

Screw aerial onto socket turning clockwise until tight

GSM Supply Terminals

Supply Power 12vdc being shown.
Polarity does not matter as shown in picture.

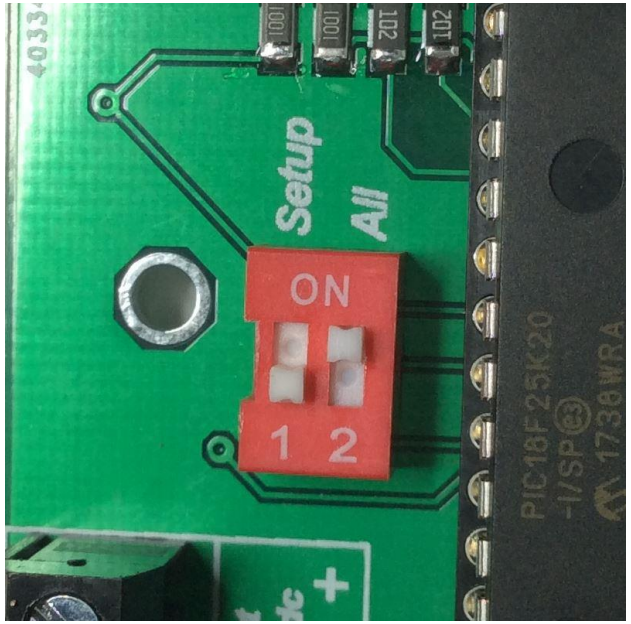
GSM Powering Up Unit

1. Power on to unit will light the Green LED solid on
2. Yellow Status LED will flash 4 times quickly on power on
3. Yellow Status LED will then start to flash every one second
4. Yellow Status will flash a further 4 times quickly to indicate communications between the board and GSM are connected.
5. On the small GSM board there will be an LED flashing, at power on it will flash every second, once a Network has been found it will flash briefly every 3 seconds.

6. Only when all the above are correct will the GSM be ready for use.

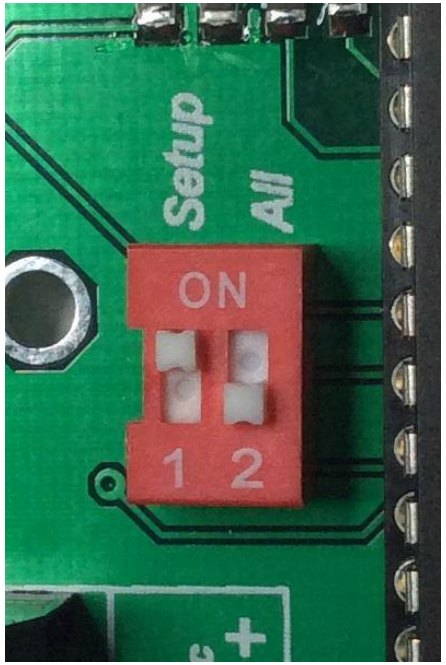
GSM Start

1. Put All Switch to On Position
2. Text R1on
3. This will then pulse Relay 1 on for 1 second only
4. If you don’t want any security and want to use the unit in this condition skip the Setup Page and Normal Operating Page.
5. Please note anyone that knows the number to the GSM will be able to access it.



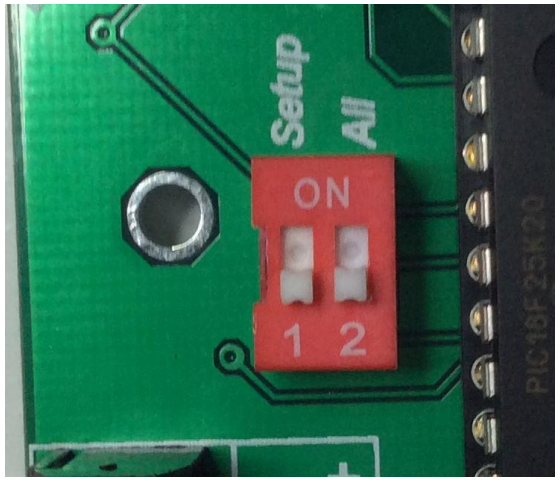
GSM Setup

1. Put Setup Switch to On Position
2. Call the unit
3. This will reject your call and flash Yellow Status LED for 1 second
4. You are now the Administrator
5. Put the Setup Switch back to off before using the GSM.



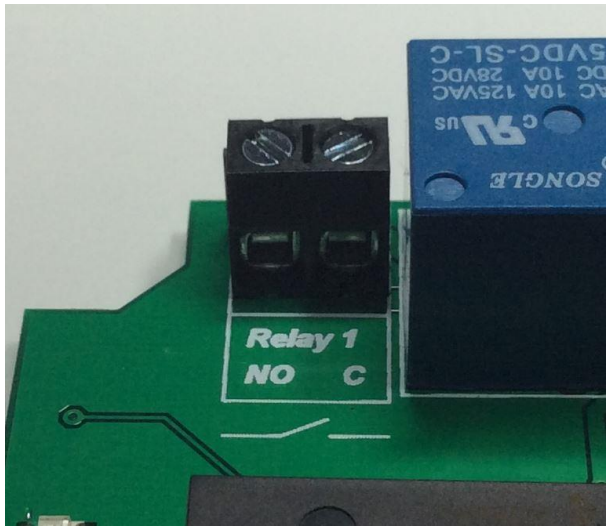
GSM Normal Operating Position

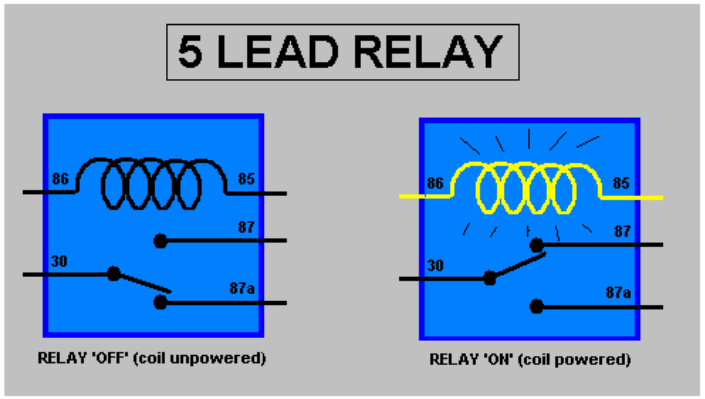
1. After doing the Setup the switches for normal operation should be in this position.



GSM Relay Contacts

1. Relay Contacts are Normally Open.
2. Max Current 6 amps
3. Max Voltage 28vdc

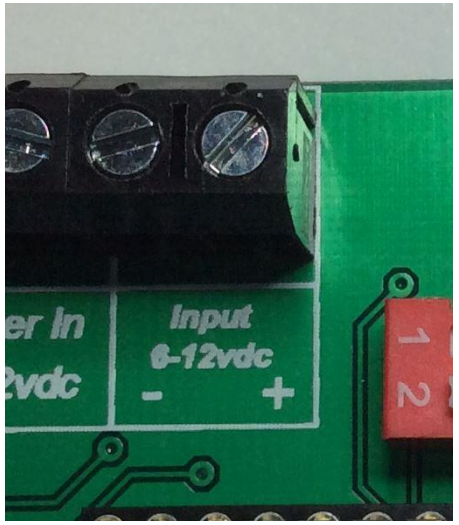




We do not use the
Normally Closed Contact

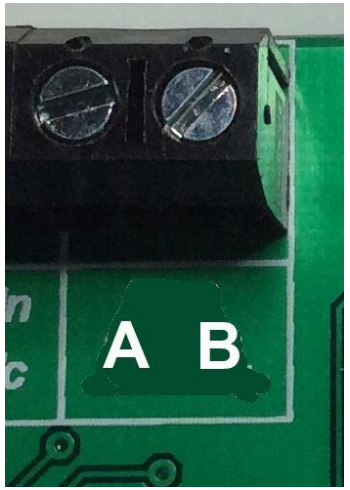
GSM Input Contacts

1. Input Terminal 6-12vdc Trigger
2. Supply can be external or internal due to OptoCoupler used.
3. Please note the polarity on the board
4. This can be used for Alarms etc…
5. It will send a pre defined message to the Number setup in the GSM, it will say ”Input Triggered”



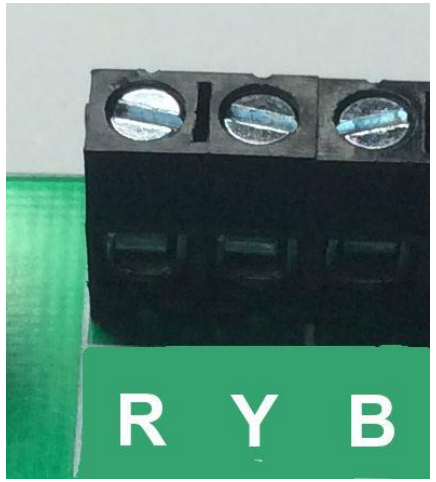
GSM A and B Outputs

1. In addition to the 2 x Relay Output function, we have also 2 x Transistor Outputs Max 100mA, 0v switching.
2. Ideal for other Relay Application.
3. Ideal Relay would be 12vdc Coil, this must be common to the GSM boards supply.
4. Both A and B only work as On or Off commands from texting, for example R3on would turn A on and R4on would turn B on.
5. To turn off Use R3off and R4off



GSM DS1820 Temperature Control

1. New function for 2018 is the Temperature Control DS1820
2. This connects as in picture.
3. R = Red
4. Y = Yellow
5. B = Blue
6. Text Z to request Temperature
7. Text Yxx.x to send the Temperature and Start Control. X's being your Temperature i.e Y21.9 = 21.9 Deg C.
8. Text X to stop the Temperature Control



GSM List of Commands

1.	R1on	Turns on Relay 1 for one second if in pulse mode
2.	R2on	As above but Relay 2
3.	R1off	Turns Relay 1 off if in Solid Mode
4.	R2off	As above but Relay 2
5.	R3on	Turns on A Transistor
6.	R3off	Turns off A Transistor
7.	R4on	Turns on B Transistor
8.	R4off	Turns off B Transistor
9.	Ron	Respond Mode On
10.	Roff	Respond Mode Off
11.	So1	Relay 1 now in Solid On Mode
12.	So2	As Above but Relay 2
13.	Pu1	Relay 1 now in Pulse Mode
14.	Pu2	As above but Relay 2
15.	Csq	Request Network Signal Strength
16.	W	With both switches All and Setup in ON position will Factory Default the Unit
17.	TT	Followed by the full 11 digit number will be the respond number i.e (TT07771234567)
18.	TS	Followed by the Position xx and the last 3 digits of number xxx for extra users, Max 20

GSM List of Commands 2

19. ERM	Followed by the Saved position, erases that user number from memory
20. ERA	Erases all user numbers in the memory
21. Z1	Followed by the 11 digit number makes this the Secondary Administrator
22. ZE1	Erases the above number (only can be done by Primary Administrator)
23. RS	Followed by xx which will be the time in seconds (Relay 1 only)
24. RM	As above but in Minutes
25. RH	As above but in Hours
26. RZ	Stops all above 3 during there timing and turns off Relay 1
27. Z	Requests from DS1820 the temperature in Deg C
28. Y	Followed by xx.x the Temperature to Set and Start the Heat Control (Y20.0) = 20.0 Deg C
29. X	Stops the above Heat Control
30. T1	Followed by xx is the timing for pulse function for Relay 1 (T120) = 20 seconds pulse
31. T2	As above but Relay 2
32. RBon	Turns both relays 1 and 2 on together
33. RBoff	Turns both relays 1 and 2 off

GSM Default Settings

1. Relay 1 Pulse time = 1 Second
2. Relay 2 Pulse time = 1 second
3. Respond = Off
4. No Numbers Stored.

GSM Installation

- Please note always consult a qualified electrician when installing these devices.
- Always use low voltage on our systems below 24vdc, 230vac must NOT be used to avoid electric shock and DEATH.
- We do not accept any responsibility for misuse of any equipment connected that may cause harm or damage to persons or to the GSM unit or to any other 3rd party equipment connected to this GSM unit.