

2G GSM MONITORING AND CONTROL



**Monitor
and control -
anytime,
anywhere...**





The CentSys **G-SWITCH-22** gives you complete control at your fingertips.

With the ability to switch devices on and off and be sent SMS alerts – all via your phone – the **G-SWITCH-22** lets you look after your home or business from just about anywhere with a 2G GSM network.



Main Features

Monitoring and alerting

The **G-SWITCH-22** looks after your property when you're not around. It can be configured to monitor two separate electrical devices ¹, such as your home alarm or even a water reservoir.

It could send you an SMS letting you know if your alarm is on or off or your reservoir is full or empty. The unit's twin inputs can be configured to react to Rising Edges, Falling Edges, or both, which makes it ideal for monitoring variable levels such as mains power. A single input can be used, for example, to send a notification to users when mains power has failed, and the same input can notify users once it comes back on, freeing up the other input to take care of monitoring duties for a different device.

Control

Forgot to switch on the alarm before you left home?
Don't turn the car around...

Control your home – from your phone.

Simply Missed Call (free) the **G-SWITCH-22** or send it an SMS. You can turn a seemingly endless list of electrical appliances and devices on and off just by using your phone and, using the Sticky Latch feature, latched outputs will 'remember' their states if power to the device is cycled ensuring that fickle power supplies will never leave you powerless.

Security

Password protection means that no one else can control your **G-SWITCH-22**.

Passwords can be changed as often as necessary so your security is never compromised, and only numbers that have been learned into the **G-SWITCH-22** are able to operate it.



Dependable access control for big events

With the **G-SWITCH's** brand new All Pass Mode feature, you can temporarily allow access to anyone in possession of the module's mobile number. This is a very convenient solution for parties, corporate functions and other soirees since you don't have to manually add and delete hundreds of users - the **G-SWITCH** will be your bouncer! Then, after the event, simply disable All Pass Mode and return the unit to full, ironclad security.

Adjustable Filter and Blanking Times

While you're saving all that petrol money by not having to go to site, why not extend your new cost-saving prowess to airtime, too? The Filter Time determines how long an input event must be asserted before it is recognised, i.e. an SMS sent, while Blanking Time determines how long the unit will wait after an event before recognising the next event and sending a notification. Or use the built-in Event Counter to set up your **G-SWITCH** to only send an input notification SMS if the input event has occurred a certain (user-defined) number of times.

Security, meet convenience

Set the maximum number of output activations a specific mobile number can use, after this the number is automatically removed from the system - perfect for allowing temporary access.

Add the ability to map inputs to outputs ¹, customise the input and output notification messages and use the **G-SWITCH-22** in advanced applications, such as industrial fridge/freezer temperature monitoring, and you have a powerful and convenient GSM-based monitoring and control solution.



Memory

The **G-SWITCH-22** can remember and communicate with 1200 different users – making it perfect for either residential, commercial and even industrial applications.

Battery voltage monitoring

Avoid being left out in the cold with the **G-SWITCH's** reliable battery monitoring facility. Your module will monitor its power source as closely as you monitor your daughter's new boyfriend, and send you an SMS if the voltage falls too low.

Easy online setup

The only thing easier than using the **G-SWITCH-22** is setting it up. Our intuitive **G-WEB website** lets you configure, monitor and receive reports online. Alternatively, you can even set your **G-SWITCH-22** up with your phone via SMS.

1. Certain functionality may require additional interface devices such as relays and isolators, etc.





G-WEB

G-WEB is a unique (and free! ²) offering from CentSys that allows you to set up and monitor your **G-SWITCH-22** devices via the CentSys website ³. That means you don't even have to waste precious time and petrol going to site - all **G-SWITCH-22** administration can be done from the comfort of your home or office.

- **Do G-SWITCH your way**

Whether you want your SMS input notification to say 'Gate Activated' or something more James Bond-sounding like 'Perimeter breached', you can easily customise the message alerts using the **G-WEB** interface. With the simple click of a mouse, you can configure the outputs to respond to either a missed call or SMS, be pulsed or latching, and you can even set how many times a particular number is allowed to activate an output. Perfect for letting armed response companies in and out!

- **All-important security**

Besides being an admin dream, **G-WEB** is also great for surveillance and site monitoring. Detailed transaction logs tell you exactly when your **G-SWITCH-22** devices were activated, and by whom. You don't have to be a super sleuth with **G-WEB** keeping tabs for you!

- **Over-the-air updating of firmware ³**

Thanks to the **G-SWITCH**'s over-the-air bootloading facility, you can update the device's firmware from any PC or laptop with internet access, giving you time for life's more important things!

User Examples

Devices that can be monitored via the inputs

- House alarm: Activated
- Electric fence: Alarm triggered
- Geyser status: On/Off
- Mains power: On/Off
- Fridge aboard your boat: On/Off
- Borehole pump status: Running/Off
- Water reservoir: Full/Empty
- Entrance gate status: Open/Pedestrian
- Vehicle monitoring: Ignition or alarm activated, or off or your reservoir is full or empty

Devices that can be switched on or off via the outputs

- Automated entrance gates
- Geysers
- Appliances, e.g. the fridge aboard your boat
- Airconditioners
- Borehole pumps
- Disable vehicle ignition systems
- Lighting systems
- Irrigation and water features
- Alarm systems

2. The **G-WEB** online user interface is free to use. In order to synchronise your **G-SWITCH-22**, synchronisation credits are required. 10 credits are supplied free of charge with every **G-SWITCH-22** unit registered to your **G-WEB** profile. Multiple settings, and administration changes can be transferred to (and from) the **G-WEB** to the **G-SWITCH-22** in a single synchronisation. If necessary, additional synchronisation credits may be purchased (please see www.CentSys.com/GSM-Devices/G-WEB for further details)

3. Requires 2G GSM network.





Applications

Your G-SWITCH-22 can:

- Switch two different electrical devices on or off, monitor them and send you SMS status alerts
- Communicate with up to 1200 users
- Activate devices via SMS or a Missed Call (free)
- Be configured quickly using CentSys' online **G-WEB website**, or from your phone via SMS
- Remain secure with password protection

Technical Specifications

G-SWITCH-22

Input voltage	11V - 30V DC only
Standby current	100mA
Maximum current	500mA
Operating temperature	-20°C - +85°C
Output relay rating	1A @ 30V DC (Output 1 and 2)
Housing material	ABS
Degree of protection	IP55
Memory capacity	1200 individual numbers
Memory retention	>200 years
Output pulse time range	1ms (default) to 50 days
Network required	2G GSM 850/900/1800/1900MHz
SIM card required	Yes (activated)
Outputs	2 (potential-free)
Inputs	2 (reacts to Rising Edge, Falling Edge or both)



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