

Telcon-IT

GSM Remote Control AC Power Switch

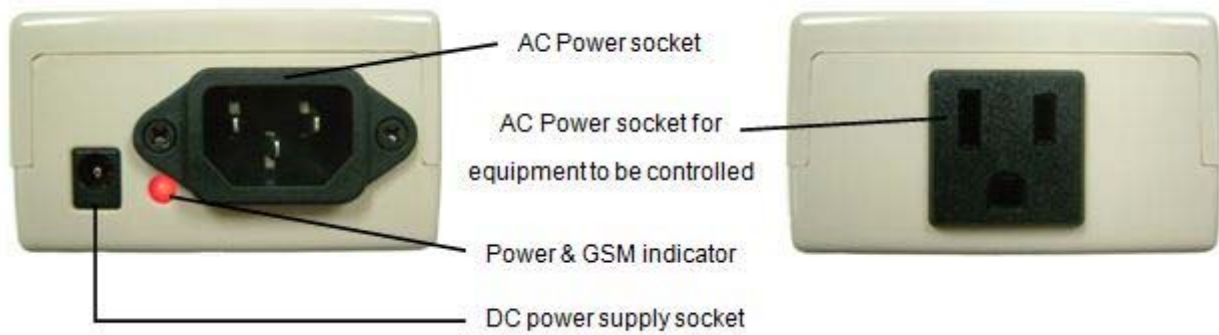
User Manual



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Description



The Telcon-IT is a remote control switch that connects to the GSM mobile phone network, it is able to switch on and off, or reboot equipment connected to it by sending an SMS text message to its telephone number.

It has a mains AC power socket (supplied with UK, EU and USA adaptor) that the equipment to be controlled is plugged into. An IEC320 power cable with UK plug that plugs into a AC mains supply outlet to power the equipment to be controlled.

If you are not in the UK you will need an IEC320 power cable (the type used for computer power leads) with a plug that matches your local mains supply outlet, please ensure its current rating is 10 Amps.

The Telcon-IT is supplied with a universal DC power supply with UK, EU and USA adaptor plates.

Requirements

An active GSM mobile/cell phone SIM card with sufficient credit to send confirmation text messages.

Note: The Telcon-IT will only work on a GSM network, it will not work with 3G or CDMA networks.

SPECIFICATIONS	
Control interface	SMS text messages
GSM frequency MHz	850, 900, 1800, 1900
Power supply adaptor	Input 100V to 240V ac, Output 5V dc @ 1 amp
Battery backup	Lithium 600mA, NP40
Operating temperature	-40°C to +85°C (ETSI Class C)
Maximum power to be controlled	15 Amps @ 120V ac, 10 Amps @ 250V ac Resistive load
Approvals	CE
Dimensions	168 x 80 43mm
Weight	260g

Preparing the SIM card

Note: The GSM-SWITCH will only work on a GSM network, it will not work with 3G or CDMA networks.

All new SIM cards have to be registered with the network provider before they can be used, usually by calling the network provider or registering on their website please refer to the instructions supplied with your SIM card.

During the registration procedure a confirmation code or text message is usually sent to the SIM cards telephone number, to be able to read and react to the message you will need to insert the SIM card into an unlocked mobile/cell phone.

After successfully registering the SIM card, ensure there is sufficient credit on the card for confirmation texts to be sent from the GSM-SWITCH unit.

You **must** enable the PIN request and initially set the 4 digit PIN code to 8888, this will be used as the password for programming and controlling the GSM-SWITCH.

NOTE The four digit PIN code must initially be set to 8888 and any changes to the PIN code must be made using the 'Changing the PIN code' command, failure to do this will result in the SIM card becoming locked.

To check the PIN request status of your SIM card, place the card in an unlocked mobile phone, switch the phone on. If you are able to make calls without entering a PIN number the PIN request is disabled.

To enable the PIN request, look through the phones menu options for the 'enable PIN request', enable it and set the 4 digit code to 8888.

It is recommended that you disable any voicemail that is set up on the SIM card.

The SIM card is now ready to use

We recommend that if you are using a 'pay as you go' (PAYG) SIM card that you choose to automatically 'Top-Up' when the cards credit falls below a certain limit please contact your network provider or visit their website for more details.

Most PAYG SIM cards will be de-activated by the network if not used to make an outgoing voice call or to send an SMS text message within a specific period. To prevent this simply send the GSM-SWITCH an SMS text command, it will reply by text message, do this once a month to keep the SIM card active. Alternatively enable automatic reporting and the GSM-SWITCH will send a status SMS text message at the programmed reporting interval.

Installation

Inserting the SIM card

Before inserting the SIM card activate and set your PIN code, see page 3 for details.

Remove the Telcon-IT case cover, locate the SIM card holder, carefully unlock by sliding the SIM card holder, then lift the SIM card holder and insert the SIM card ensuring correct orientation. See photos below.



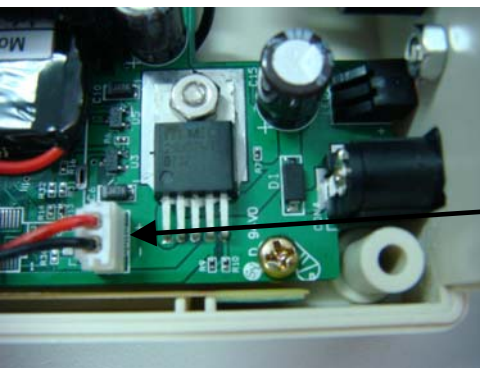
Note orientation

Close the SIM card holder and slide to lock in position. Do not at any stage use excessive force.



Connect the back up battery

Locate the back up battery and plug its connecting lead into the socket on the circuit board.



Back up battery connector

Installing the Telcon-IT

Replace the case cover and fix with screws provided.



Connect power supply

Plug the mains power adaptor into the DC power supply socket. The red LED will light and then start flashing rapidly whilst it is logging onto the GSM network, once logged on to the network the LED will flash once per second.



Connecting the mains supply and equipment to be controlled



Plug in the equipment to be controlled if necessary use the adaptor provided



Plug in the mains power supply lead

Testing

Using a mobile phone send the following SMS text message to the Telcon-IT **<8888,4,01:07960123456>** where 888 is your PIN code and replace the example phone number with your mobile telephone number.

You will receive an acknowledgement **Reporting Number set to : 01 : your telephone number ok by your telephone number** which confirms successful installation.

SMS Commands and functions

SMS Format

The SMS texts MUST start with < and end with >

All parameters, PIN codes, comments and commands must be separated with a ,

Example: <8888,2,10>

Explanatory notes can be added before the text for easy recognition, the notes need to start with (and end with)

Example: (REBOOT)<8888,1>

Several commands can be sent in one SMS text message, the maximum number of characters including numbers and symbols is 160

Commands

NOTE The four digit PIN code must initially be set to 8888 and any changes to the PIN code must be made using the 'Changing the PIN code' command, failure to do this will result in the SIM card becoming locked.

Changing the PIN code

SMS Format	Description	Acknowledgement
<8888,3,6666>	8888 is the original PIN code 3 is the command 6666 is the new PIN code	Password change ok by xxxxxxxxx (telephone number that changed the password)

Entering the telephone numbers into the receive status SMS text messages list

SMS Format	Description	Acknowledgement
<8888,4,01:07971545423 /02:07971653876>	8888 is the PIN code 4 is the command 01:07971545423 - 1st number 02:07971653876 - 2nd number Up to 8 numbers can be entered	Reporting Number set to: 01:07971545423/02:0797165 3876 ok by xxxxxxxxx (telephone number that changed the password)

Deleting numbers from the list

<8888,4,01:>	8888 is the PIN code 4 is the command 01: is the position of the number to be deleted	Reporting Number set to: 01: ok by xxxxxxxxx (telephone number that changed the password)
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Checking the telephone numbers in the receive status SMS text messages list

SMS Format	Description	Acknowledgement
<8888,5>	8888 is the PIN code 5 is the command	Reporting Number: 01: 07971545423 02: 07971653876

Reboot the equipment connected to the Telcon-IT

SMS Format	Description	Acknowledgement
<8888,1>	8888 is the PIN code 1 is the command	Equipment reset ok by xxxxxxx (telephone number that sent the command)

Setting the reboot off time

SMS Format	Description	Acknowledgement
<8888,2,10>	8888 is the PIN code 2 is the command 10 is the off time in seconds Factory default is 20 seconds Maximum is 999 seconds	Equipment Reset time set to 10 seconds by xxxxxxxx (telephone number that sent the command)

Power off the equipment connected to the Telcon-IT

SMS Format	Description	Acknowledgement
<8888,8>	8888 is the PIN code 8 is the command	Equipment power down by xxxxxxx (telephone number that sent the command)

Power on the equipment connected to the Telcon-IT

SMS Format	Description	Acknowledgement
<8888,9>	8888 is the PIN code 9 is the command	Equipment power on by xxxxxxx (telephone number that sent the command)

Disable the system auto reporting

If auto reporting is disabled you will not receive power failure and power restore messages

SMS Format	Description	Acknowledgement
<8888,7>	8888 is the PIN code 7 is the command	Auto reporting disabled by xxxxxxx (telephone number that sent the command)

Enable and setup the system auto reporting

SMS Format	Description	Acknowledgement
<8888,6,24>	8888 is the PIN code 6 is the command 24 is the reporting interval in hours Maximum 99 hours	Auto reporting time set to : 24 hours ok by xxxxxxxxx (telephone number that sent the command)

Disable acknowledgement SMS text messages

SMS Format	Description	Acknowledgement
<8888,b>	8888 is the PIN code b is the command Note: Small letter b	SMS acknowledgement disabled by xxxxxxxxx (telephone number that sent the command)

Enable acknowledgement SMS text messages

SMS Format	Description	Acknowledgement
<8888,a>	8888 is the PIN code a is the command Note: Small letter a	SMS acknowledgement enabled by xxxxxxxxx (telephone number that sent the command)

Auto Reporting

The Telcon-IT will send status text messages to the telephone numbers in the 'status SMS text messages list' as follows:

Power supply failure (5v DC) - **AC power fault!**

Power supply restore - **AC power restore**

Low Battery - **battery power low!**

Commands – Quick Reference

FUNCTION	COM-MAND	FORMAT	ACKNOWLEDGEMENT
Change PIN code	3	<8888,3,6666> Existing PIN > Com-mand > New PIN	Password change ok by xxxxxxxxx (telephone number that changed the password)
Enter telephone number to receive confirmation text messages	4	<8888,4,01:07801234> PIN > Command > Number position > Telephone number Note: Up to 8 numbers can be entered	Reporting Number set to : 01 : 07801234 ok by xxxxxxxxx (telephone number that sent the command)
Check telephone numbers stored to receive confirmation text messages	5	<8888,5> PIN > Command	Reporting Number: 01 : 07801234
Reboot equipment connected to the Telcon-IT	1	<8888,1> PIN > Command Note: Default off time 20 seconds	Equipment reset ok by xxxxxxxxx (telephone number that sent the command)
Changing the reboot off time	2	<8888,2,120> PIN > Command > Time (in seconds)	Equipment Reset time set to 120 seconds by xxxxxxxxx (telephone number that sent the command)
Switch off equipment connected to the Telcon-IT	8	<8888,8> PIN > Command	Equipment power down by xxxxxxxxx (telephone number that sent the command)
Switch on equipment connected to the Telcon-IT	9	<8888,9> PIN > Command	Equipment power on by xxxxxxxxx (telephone number that sent the command)
Activate and configure automatic reporting interval	6	<8888,6,24> PIN > Command > Reporting interval (in hours) Note: Default interval 24 hours, maximum 99 hours	Auto reporting time set to : 24hours ok by xxxxxxxxx (telephone number that sent the command)
Deactivate automatic reporting	7	<8888,7> PIN > Command	Auto reporting disabled by xxxxxxxxx (telephone number that sent the command)
Disable sending of confirmation text messages	b	<8888,b> PIN > Command Note: Small letter b	SMS acknowledgement disabled by xxxxxxxxx (telephone number that sent the command)
Enable sending of confirmation text messages	a	<8888,a> PIN > Command Note: Small letter a	SMS acknowledgement enabled by xxxxxxxxx (telephone number that sent the command)