GSM Remote Control System

Features

- Two way remote control via SMS Text

- Easy to install and configure using SMS text message

- No PC required.

- 2 digital inputs (volt free)

- 2 x Relay Changeover Contacts rated 240Vac 5A

- Optional external temperature measurements

- User can set inputs and outputs names

- Waterproof enclosure rated IP68

- Worldwide Quad Band GSM.

Applications

- Remote Maintenance, warnings / Alarms/ Reset.
- Heating Systems
- Irrigation Systems.
- Remote system monitoring.
- Plant Maintenance.
- Security Systems
- Alert / Panic caller
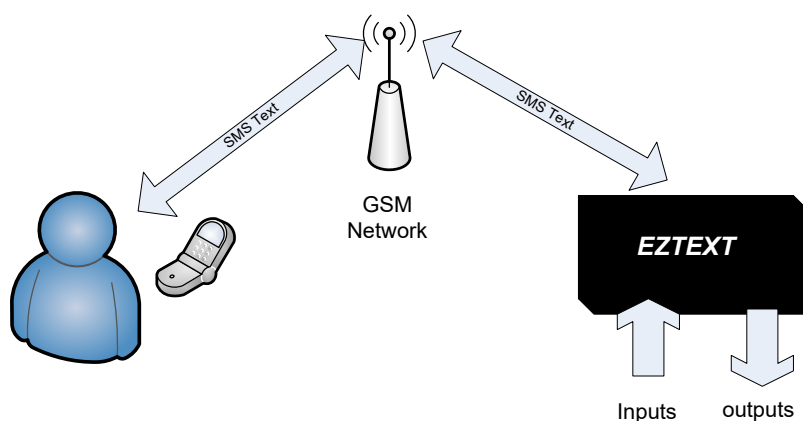
Description

EZTEXT is a self contained two way Remote Control System which provides two changeover contact switches and two 'no volt' switch detect inputs. EZTEXT will send text messages to up to five users if its input is activated or at a temperature set point. A user can control EZTEXT switches by sending text messages. Custom messages may be set easily via configuration text messages.

EZTEXT

Ordering Information

PART No	Description
EZTEXT	GSM telemetry system IP68 enclosure
BAT-EZTEXT-2	Optional lithium battery 950mAH
PSU-12V1A-IP	Power supply IP67
CBA-UFLSMA	Cable assembly for external antenna
CBA-EZTEMP2	Temperature sensor cable

Insert SIM card
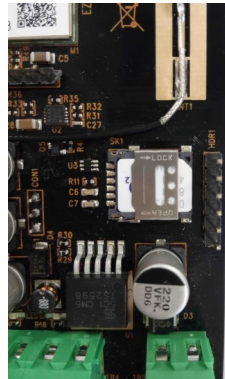
Insert Simcard Here
1. Slide retaining clip to the Left and open.
2. Place Nano sim on base.
3. Close Lid and slide to the Right to lock.

Please note:

- Insert nanoSIM Card before applying power (standard 3 Volt SIM only).

- The message memory of the SIM card should be clear before it is fitted.

- Ensure that the SIM card has not been PIN code protected!

- Beware of Pay-as-you-go SIM which require regular top-up to remain active.

- It is recommended to bar Incoming voice calls to the SIM card to avoid error messages being sent back to the user. This can be achieved by calling the service provider.

The SIM card should be inserted into EZTEXT before applying power

- **RF Solutions recommends O2 and Vodaphone SIM card and has carried out extensive testing using the SIM cards we have for these two networks.**
- **Problems have been identified with Orange SIM cards with this product.**
- **No guarantee can be given for the operation of this product with any network except those that have been tested by RF Solutions.**

Connect inputs/outputs and power connections

The EZTEXT unit can be powered from 9 to 24Vdc.
Inputs are VOLT free.
Outputs are Relay Changeover Contacts as shown below.

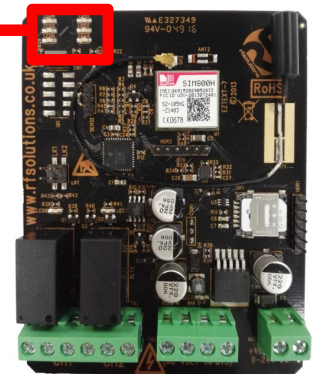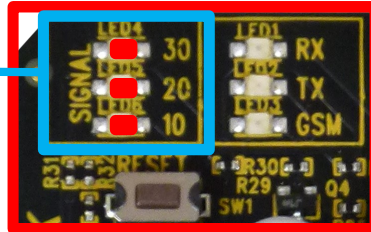| 1	2	1	2	Supply
Outputs		Inputs		Terminals

EZTEXT
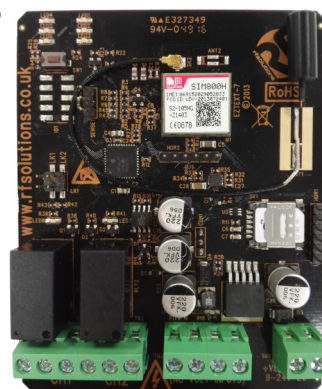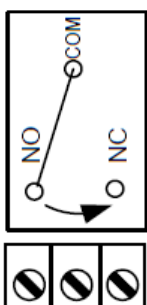
LED Indication at Start up

Logging onto Network (traffic light sequence)					
30 🔴	⬜	⬜	🔴	⬜	⬜
20 ⬜	🔴	⬜	⬜	🔴	⬜
10 ⬜	⬜	🔴	⬜	⬜	🔴

Error! (All Flash ON / OFF together)					
30	🔴	⬜	🔴	⬜	🔴	⬜
20	🔴	⬜	🔴	⬜	🔴	⬜
10	🔴	⬜	🔴	⬜	🔴	⬜
RX	🔴	⬜	🔴	⬜	🔴	⬜
TX	🟢	⬜	🟢	⬜	🟢	⬜

Error - No GSM Service
1. Check SimCard
2. Check Antenna Connection

4. LED Indication after start up (normal operation)

| Signal Strength		
Good	OK	Poor
🔴 🔴 🔴	🔴 🔴	🔴
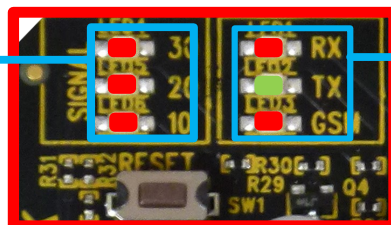
Activity LED's	
RX	Flashes when Receiving an SMS
TX	Flashes when Transmitting an SMS
GSM	Intermittent flash GSM healthy

Operational battery backup (880mAH lithium rechargeable)

The battery provides an automatic backup supply to continue normal operation when power fails. EZTEXT can also send an SMS when power is switched to battery and when main power is restored.

The battery is recharged and maintained when power is present

In the event of a complete power loss, EZTEXT will retain user configured data, however the status of the relays will be lost.
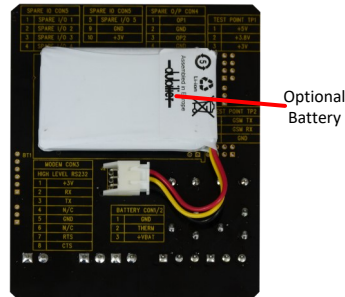
Optional
Battery

Optional external antenna

Using an external antenna can provide a much better signal reception than the internal antenna unplug the antenna connection. Use cable adaptor CBA-UFLSMA-1 to provide an SMA bulkhead connector into which many alternative GSM antennas may connect. Using an external antenna can provide a much better signal reception than the internal antenna
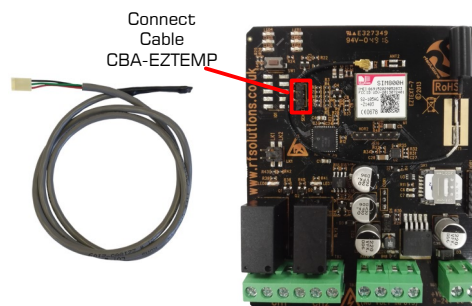

Antenna
Connection

Internal
Antenna

CBA-UFLSMA-1
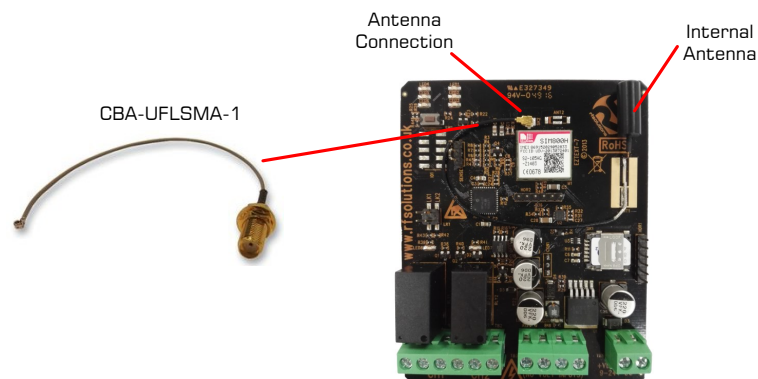
Optional temperature measurement

Using the cable adaptor CBA-EZTEMP provides a 1metre plug in cable with temperature probe. This enables the EZTEXT temperature monitor and control functions.

Connect
Cable
CBA-EZTEMP

EZTEXT

Text Message Commands

Please note that the following characters can be used as character separators

Has h"#", Comma "," or Space " "
For example
1234#out1#ON or 1234,out1,ON or 1234 out1 ON

Error Messages and Factory Reset

There are three error messages;

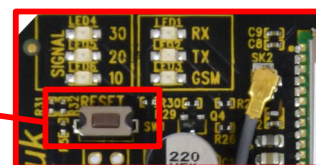|	
NO AUTHORISATION	Means that EZTEXT did not accept the password
UNRECOGNIZED COMMAND	Password correct but the command is incorrect
UNRECOGNIZED VARIABLE	Password and command OK but the variable data is in-correct

Factory reset
Hold down the RESET button for approx10
seconds until all LEDs flash, then release.
This will reset EZTEXT to factory default
settings and restart.

Reset switch

User set-up commands

Title	Command	Description	Example
Password	UPW	**UPW#UNITPW** User must send UPW command within 5 mins after power applied. Setting the UPW is carried out by sending this text message to the unit. The User Password (4 – 8 Characters) **is case sensitive** and can consist of any letters or numbers. If for any reason the unit password is lost, remove all power for 1 minute, and then start again. Note : Default password is 1234	UPW#1234 (sets password to 1234) Response: UPW OK
Unit identity	UID	**UNITPW#UID#UNITID** This sets the 'identity' of the EZTEXT unit, and will be included in any response text from EZTEXT. The UNITID can be 4 to 10 characters.	1234#UID#Door Alarm Response: Door Alarm UID OK
Response	RESPONSE RESPONSE?	**UNITPW#RESPONSE#x** Setup a Reply Text EZTEXT after receiving a command x=ON or OFF **UNITPW#RESPONSE?** Requests the status of the current RESPONSE setting NOTE: messages which specifically demand a response such as requests for input status will always be responded to as will the UPW, UID etc. Default setting is for response to be turned ON.	1234#RESPONSE#ON Turns on Response messages 1234#RESPONSE? Replies with the EZ-TEXT setting to responses

EZTEXT

INPUT Commands

Title	Command	Description	Example
Set an input name	IPNAME IPNAME?	When the input changes this is the name that the EZTEXT will transmit in its text message UNITPW#IPNAMEn#<name> This designates a <name> to an EZTEXT input (max15 characters) n=1 - 4 for inputs1 to 4 UNITPW#IPNAME? Requests the name given to all inputs	1234#IPNAME1#Gate Sets input 1 to be known as 'Gate' 1234#IPNAME? Requests the current name of input1
Input number to text	IPNUM IPNUM?n IPNUMDEL	Sets the destination phone number(s) (max 5 per input) when an EZTEXT input is activated. UNITPW#IPNUMn,<num to text> n=1 - 4 for inputs1 to 4 UNITPW#IPNUM?n Requests all Stored cell Nos for that input UNITPW#IPNUMDELn n=1 - 4 for inputs1 to 4 Deletes all stored cell Nos for that input number	1234#IPNUM1#00441 234567891 Sets tel No to input 1 1234#IPNUM?1 Requests all stored telephone numbers for input 1 1234#IPNUMDEL2 Deletes **ALL** stored numbers for input 2
Set number of input activations before SMS sent	IPCNT IPCNTVAL?	Sets the number of times an input must be activated before an SMS is sent <UNITPW#IPCNTn#x n= input number (1 or 2) x= Counter (0 to 65500) UNITPW#IPCNTVAL? Requests the actual current value of the counter	1234#IPCNT1#10 A text will be sent after input 1 has been activated 10 times 1234#IPCNTVAL? Responds with ; INTPUT1= 10/4 intput1 has been activated 4 times, 6 more activations required before text is sent
Delay SMS on input activation	IPDLY IPDLY?	Sets a timer (Max 65500 secs). When the EZTEXT input is activated the timer starts to countdown in seconds. When the counter reaches zero, providing the input is still activated a text message will be sent. UNITPW#IPDLYn#xx n=1 - 4 for inputs1 to 4 'xx' can be a number from 0 to 65500 UNITPW#IPDLY? Requests timer values for all inputs Note: When combined with IPCNT each activation of Input must be for the extended time	1234#IPDLY1#60 Input 1 has a 60sec delay before text is sent 1234#IPDLY? Responds with ; INTPUT1= 60/34 (output1 has been active for 34 out of a total 60sec preset time. 34secs more is required before text sent)

EZTEXT

Output Commands

Title	Command	Description	Example
Activate an output	OUT	**Turns an output ON or OFF** **UNITPW#OUTn#x** n=Relay number = 1 to 4 x=Relay Status = ON, OFF	1234#OUT1#ON Turns Output1 ON
Set an output name	OPNAME OPNAME?	This designates a name to an EZTEXT output **UNITPW#OPNAMEn#name** n=Output no name= name can be up to 15 characters. **UNITPW#OPNAME?** Requests the name of the Outputs	1234#OPNAME1#AIRC ON sets output 1 name to be 'AIRCON' 1234#OPNAME? Requests names of all the outputs
Set output on time	OPDLY OPDLY?	Sets output operation time. The output can be set from 1 to 65500 seconds, or If is set to '0', then the output will latch on **UNITPW#OPDLYn#t** n=Output number t=Delay time (seconds) **UNITPW#OPDLY?** Requests the current 'on' time setting for an output EZTEXT replies with the preset time delay output and the actual time that the output has been activated for **Note the Timer counts down from the preset time delay**	1234#OPDLY1#500 Sets output1 to operate for 500 sec's 1234#OPDLY? Responds with ; OUTPUT1= 500/34 (output1 has been active for 34 out of a total 500sec preset time)

Power Fail Commands

Title	Command	Description	Example
Number to text on power failure	PFNUM PFNUM? PFNUMDEL	This command sets a number to text (max 5 nos) when Power Failed (only if optional battery fitted) and when Power is restored **UNITPW#PFNUM#<numbertotext>** Sets the number to text on power fail **UNITPW#PFNUM?** Requests the current numbers that are stored **UNITPW#PFNUMDEL** PFNUMDEL Deletes all stored Power Failed cell Nos	1234#PFNUM#004412 73898000 1234 #PFNUM? Response: Returns current settings 1234 #PFNUMDEL Deletes all stored cell Nos against this
Text when power is lost Text when power restored		UNIT ID POWER FAILURE RUNNING ON BATTERY UNIT ID POWER RESTORED	

EZTEXT

Temperature Commands

Command	Description	Description	Example
Request current temperature	TEMP?	UNITPW#TEMP? requests the current temperature.	1234# TEMP?
Set SMS numbers to text on trigger	TEMPNUM TEMPNUM? TEMPNUM-DEL	UNITPW#TEMPNUM#<numbertotext> Sets the cell phone nos (max of 5) linked with the temperature monitoring. TEMPNUM? Requests all linked cell phone nos TEMPNUMDEL Deletes all linked cell phone nos	1234#TEMPNUM#00441234567891 Sets the number 01234 567891 1234#TEMPNUM? Requests all cell phone numbers which will be notified on temp triggers 1234#TEMPNUMDEL Deletes all the telephone numbers associated with Temperature monitoring
Set maximum trigger temperature	SETTEMPMAX	UNITPW#SETTEMPMAX#n Sets the maximum temperature trigger level in degrees Celsius.	1234#SETTEMPMAX#30 Sets the upper trigger level to 30°C
Set maximum trigger temperature	SETTEMPMIN	UNITPW#SETTEMPMIN#n Sets the minimum temperature trigger level.	1234#SETTEMPMIN#20 Sets the lower trigger level to 20°C

System Commands

Title	Command	Description	Example

Report GSM signal strength	SIGQ	UNITPW#SIGQ
		Reports EZTEXT GSM signal strength as;
		     'POOR' (consider alternative antenna)
		     'OK', or 'Good'.
			1234#SIGQ
			
			Response: Signal is good

Retrieve status of inputs and outputs	STATUS	UNITPW#STATUS requests the current status of all inputs and outputs	1234#STATUS Response: Returns current settings

Technical specifications

Storage Temperature: -10 to +70°C. Operating Temperature: 0 to +55°C.
EZTEXT Enclosure Rating: IP68
EZTEXT Dimensions: 130 x 112 x 42mm

Electrical Characteristics*	Min	Typical	Max	Dimension	Notes
Supply Voltage	9		26	V	
Supply Current for EZTEXT: Idle Operating	24 100	35 250	45 2000	mA mA	1 2
Closed Contact Input Time	100			mSec	
Temperature Cable	-40		99	°C	3
Mains rated Relay Rating (230Vac)		5	12	A	4

*Notes

Figures refer to maximum supply current required with all components idle.

Figures refer to peak supply current required with all components operating.

In practice internal reservoir capacitance limits the instantaneous peak current to less than 500 mA.

Temperature accuracy +/-1degree Centigrade

The relay contacts in this unit are for functional switching only and must not be used for isolation purposes.

EZTEXT Version Identification

As part of our ongoing quality improvement we are publishing the Engineering changes for the product evolution
The product part number and revision of build can be viewed as shown
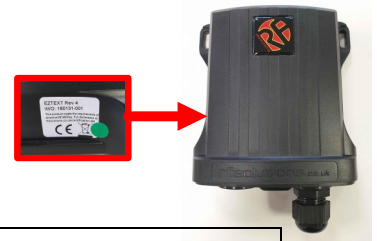
EZTEXT REVISION CHANGE HISTORY			
Date	Eng Change	New Revision	Product Change / Improvement
24/1/19	ECN318	6	Add a Delay of 30 seconds to the internal power detector so the EZTEXT will require continuous main power failure for 30 seconds before triggering a power failure SMS

Important European compliance information

This RF Solutions product meets the essential requirements of the European Radio Equipment Directive 2014/53/EU and has been tested to European Harmonised Standards and CE marked accordingly. A copy of the EU

Declaration of Conformity can be located on the RF Solutions Website, www.rfsolutions.co.uk/certification-i59.

www.rfsolutions.co.uk

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