



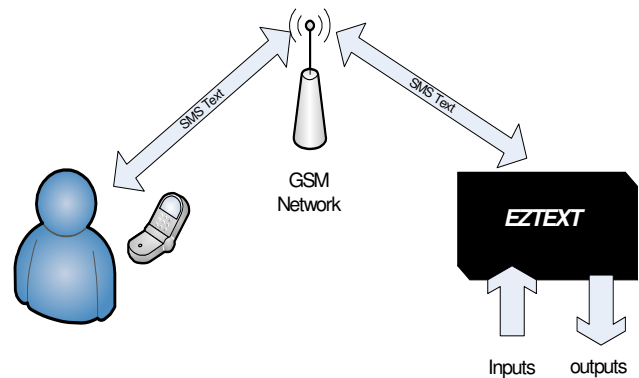
EZTEXT - GSM REMOTE CONTROL

- Two Way Remote Control From a Cell phone
- Easy to Install and Configure using SMS commands (No PC required).
- 2 Digital Inputs (Volt Free)
- 2 x Relay Outputs rated 240Vac 5A
- Optional external Temperature / Humidity Measurement
- User Can set inputs and outputs Names
- Outputs controlled by SMS text message
- Automatically Sends SMS message when input activated
- Up to 5 cell phones Notified
- Waterproof Enclosure Rated IP68
- Quad-band GSM for World-wide use



Applications

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



EZTEXT is a self contained two way Remote Control System which provides two changeover contact Switching outputs and two 'no volt' switched inputs.

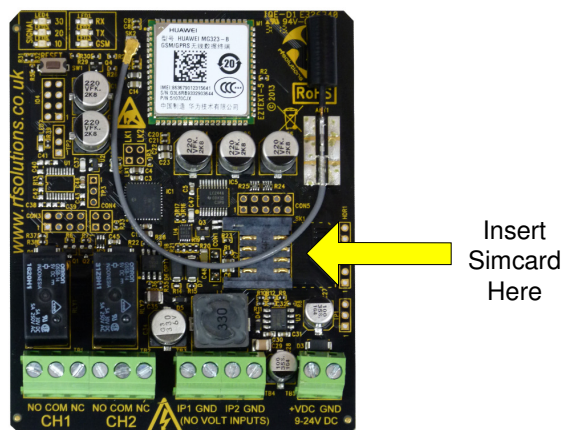
EZTEXT will send a custom text message to upto five users if its input has been activated or at a temperature or humidity set point.

The user can control EZTEXT outputs by sending a text message. Custom names and messages may be setup. Configuration of EZTEXT is easy though user controlled Text messages

PART No	Description
EZTEXT	GSM Telemetry System IP68 Enclosure
BAT-EZTEXT	Optional Lithium Battery 880mAH
PSU-12V1A-IP	Power Supply IP67
CBA-UFLSMA	Cable assy for external Antenna
CBA-EZTEMP	Temperature Sensor Cable



1. Insert Simcard



Please note:

- Insert SIM 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

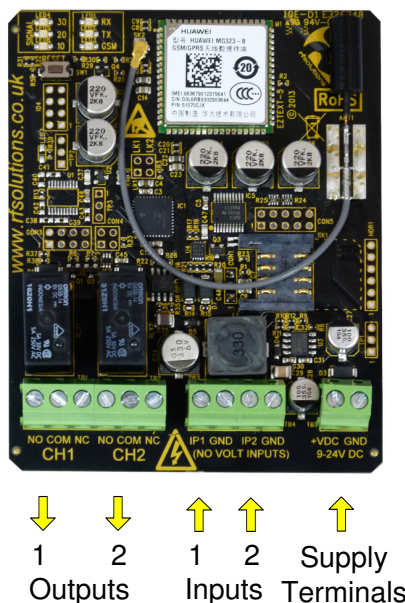
RF Solutions recommends O2 and Vodafone SIM card and has carried out extensive testing using the SIM cards we have for these two networks.

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.

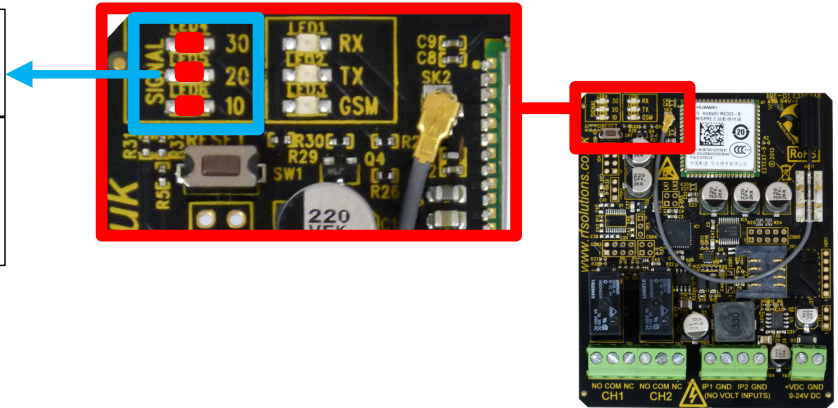
2. Connect Inputs / Outputs and Power Connections

The EZTEXT unit can be powered from 9 to 24Vdc.



3. LED Indication at Startup

Logging onto Network (traffic light sequence)						
30		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	



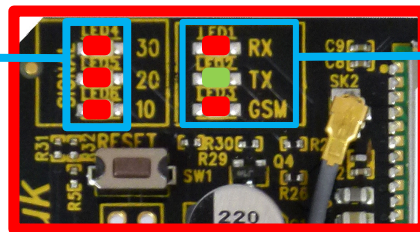
Error! (All Flash ON / OFF together)						
30		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
20		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
10		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
RX		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
TX		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

Error - No GSM Service

1. Check SimCard
2. Check Antenna Connection

4. LED Indication After Startup (Normal Operation)

Signal Strength		
Good	OK	Poor



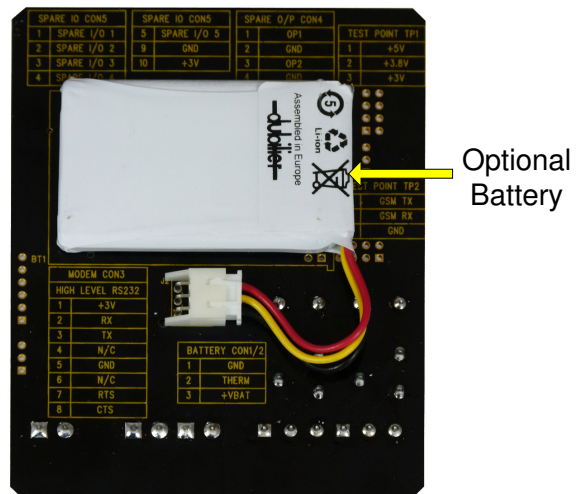
Activity LED's	
RX	Receiving an SMS
TX	Transmitting an SMS
GSM	Intermittent Flash GSM Healthy

5. Optional 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

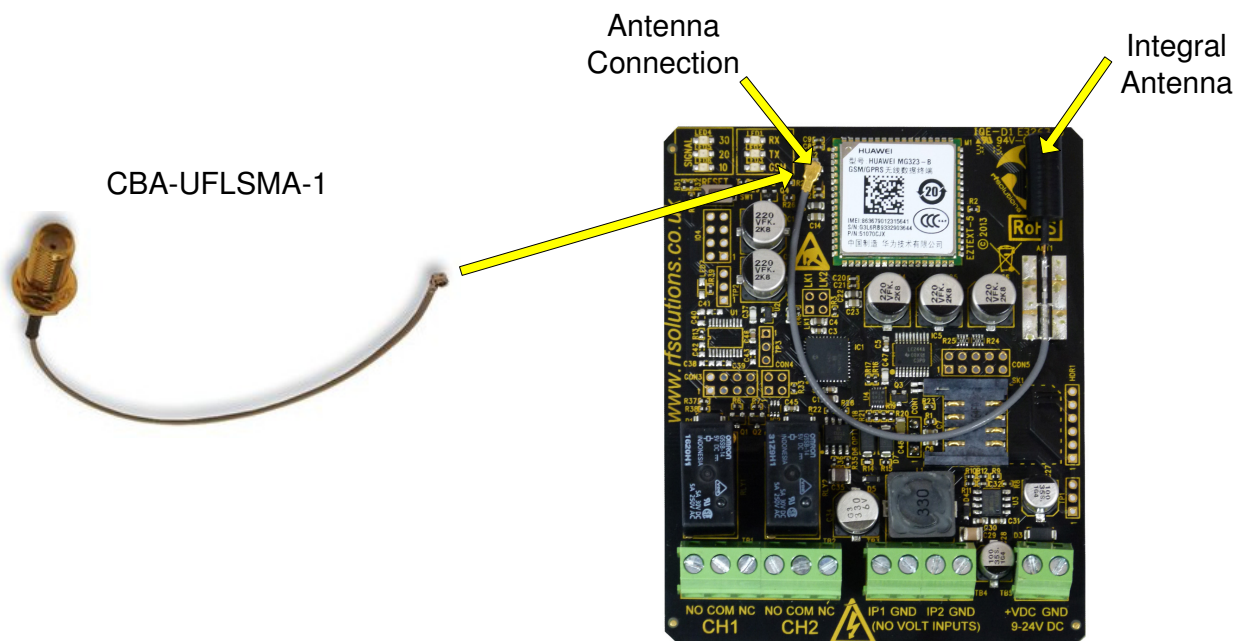
In the event of a complete power loss, EZTEXT will retain user configured data, however the status of the relays will be lost.



6. Optional External Antenna

Using an external antenna can provide a much better signal reception than the internal antenna

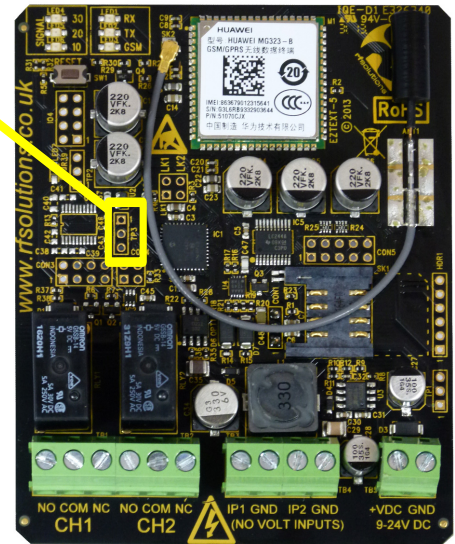
Unplug the Antenna Connection. Use Cable adaptor CBA-UFLSMA-1 to provide an SMA Bulkhead connector into which many alternative GSM antennas may connect. Using an external antenna can provide a much better signal reception than the internal antenna



7. Optional Temperature / Humidity 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
Here





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8. User Set-Up Commands

Title	Command	Description	Example
Password	UPW	<p>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.</p> <p>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.</p>	<p>UPW#1234 (sets password to 1234)</p> <p>Response: UPW OK</p>
Unit Identity	UID	<p>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.</p>	<p>1234#UID#Door Alarm</p> <p>Response: Door Alarm UID OK</p>
Response	RESPONSE RESPONSE?	<p>UNITPW#RESPONSE#x Setup a Reply Text EZTEXT after receiving a command x=ON or OFF</p> <p>UNITPW#RESPONSE? Requests the status of the current RESPONSE setting</p> <p>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 off.</p>	<p>1234#RESPONSE#ON Turns on Response messages</p> <p>1234#RESPONSE? Replies with the EZTEXT setting to responses</p>



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9. INPUT Commands.

Title	Command	Description	Example
<p>Set an Input Name</p>	<p>IPNAME IPNAME?</p>	<p>When the input changes this is the name that the EZTEXT will transmit in its text message</p> <p>UNITPW#IPNAMEn#<name> This designates a <name> to an EZTEXT input (max15 characters) n=1 - 4 for inputs1 to 4</p> <p>UNITPW#IPNAME? Requests the name given to all inputs</p>	<p>1234#IPNAME1,Gate Sets input 1 to be known as 'Gate'</p> <p>1234#IPNAME? Requests the current name of input1</p>
<p>Input to Tel No</p>	<p>IPNUM IPNUM?n IPNUMDEL</p>	<p>Sets the destination phone number(s) (max 5 per input) to be text when an EZTEXT input is activated</p> <p>UNITPW#IPNUMn,<num to text> n=1 - 4 for inputs1 to 4</p> <p>UNITPW#IPNUM?n Requests all Stored cell Nos for that input</p> <p>UNITPW#IPNUMDELn n=1 - 4 for inputs1 to 4 Deletes all stored cell Nos for that input number</p>	<p>1234#IPNUM1,00441234567891 Sets tel No to input 1</p> <p>1234#IPNUM?1 Requests all stored tel Nos for input 1</p> <p>1234#IPNUMDEL2 Deletes ALL stored nos for input 2</p>



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INPUT Commands cont....

Title	Command	Description	Example
<p>Set No of Input Acitvations before SMS Sent</p>	<p>IPCNT</p> <p>IPCNTVAL?</p>	<p>Sets the number of times an input must be activated before an sms is sent</p> <p><UNITPW#IPCNTn,x n= input number (1 or 2) x= Counter (0 to 65500)</p> <p>UNITPW#IPCNTVAL? Requests the actual current value of the counter</p>	<p>1234#IPCNT1,10 A text will be sent after input 1 has been activated 10 times</p> <p>1234#IPCNTVAL? Responds with ; INTPUT1= 10/4 input1 has been activated 4 times, 6 more activations required before text is sent</p>
<p>Delay SMS on Input Activation</p>	<p>IPDLY</p> <p>IPDLY?</p>	<p>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.</p> <p>UNITPW#IPDLYn,xx n=1 - 4 for inputs1 to 4 'xx' can be a number from 0 to 65500</p> <p>UNITPW#IPDLY? Requests timer values for all inputs</p>	<p>1234#IPDLY1,60 Input 1 has a 60sec delay before text is sent</p> <p>1234#IPDLY? Responds with ; INTPUT1= 60/34 (output1 has been active fro 34 out of a total 60sec preset time. 34secs more is required before text sent)</p>



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10. Output Commands

Title	Command	Description	Example
Activate an Output	OUT	<p>Turns an Output ON or OFF</p> <p>UNITPW#OUTn,x n=Relay number = 1 to 4 x=Relay Status = ON, OFF</p>	<p>1234#OUT1,ON Turns Output1 ON</p>
Set an output name	OPNAME OPNAME?	<p>This designates a name to an EZTEXT output</p> <p>UNITPW#OPNAMEn,name n=Output no name= name can be upto 15 characters.</p> <p>UNITPW#OPNAME? Requests the name of the Outputs</p>	<p>1234#OPNAME1,AIRCON sets output 1 name to be 'AIRCON'</p> <p>1234#OPNAME? Requests names of all the outputs</p>
Set Output On time	OPDLY OPDLY?	<p>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</p> <p>UNITPW#OPDLYn,t n=Output number t=Delay time (seconds)</p> <p>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</p>	<p>1234#OPDLY1,500 Sets output1 to operate for 500 sec's</p> <p>1234#OPDLY? Responds with ; OUTPUT1= 500/34 (output1 has been active for 34 out of a total 500sec preset time)</p>



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11. Power Fail Commands

Title	Command	Description	Example
<p>Number to text on Power Failure</p>	<p>PFNUM</p> <p>PFNUM?</p> <p>PFNUMDEL</p>	<p>This command sets a number to text (max 5 nos) when Power Failed (only if optional battery fitted)</p> <p>UNITPW#PFNUM#<numbertotext> Sets the number to text on power fail</p> <p>UNITPW#PFNUM? Requests the current numbers that are stored</p> <p>UNITPW#PFNUMDEL PFNUMDEL Deletes all stored Power Failed cell Nos</p>	<p>1234#PFNUM#00441273898000</p> <p>1234 #PFNUM? Response: Returns current settings</p> <p>1234 #PFNUMDEL Deletes all stored cell Nos against this</p>
<p>Text on power Restored</p>		<p>UNIT ID#Reboot power had failed Texts will be sent to cell phone numbers stored in IPNUM on reboot after a power failure or reset (when power is reapplied). Note: this feature is enabled or disabled by simply having cell phone numbers in PNUM.</p>	<p>Building2 Reboot power had failed</p>



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12. 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? TEMPNUMDEL	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 cell nos associated with Temp monitoring
Set Maximum Trigger Temperature	SETTEMPMAX	UNITPW#SETTEMPMAX#n Sets the maximum temperature trigger level in DegC.	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



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13. 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



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14. Error Messages & Factory Reset

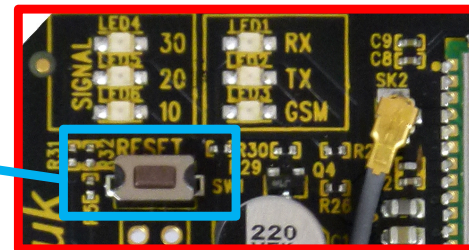
There are three error messages;

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 incorrect

Factory Reset

Hold down the RESET button for approx 10 seconds until all LEDs flash, then release. This will reset EZTEXT to factory default settings and restart.

Reset Switch





EZTEXT - GSM REMOTE CONTROL

Technical Specifications

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

Electrical Characteristics	Min	Typical	Max	Dimension	Notes
Supply Voltage	9		26	V	
Supply Current for EZTEXT:					
Idle	35	44	100	mA	1
Operating	200	370	1000	mA	2
Temperature Cable	-40		99	°C	3
Mains rated Relay Rating (230Vac)		5	12	A	4

Notes

- Refers to maximum supply current required with all components idle.
- Refers 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.

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DO NOT Discard with normal waste, please recycle.

ROHS Directive 2002/95/EC
 Specifies certain limits for hazardous substances.

WEEE Directive 2002/96/EC
 Waste Electrical & Electronic Equipment.
 This product must be disposed of through a licensed WEEE collection point.
 RF Solutions Ltd fulfils its WEEE obligations by membership of an approved compliance scheme.
 Environment Agency producer registration number WEE:JB0104WV

Waste Batteries and Accumulators Directive 2006/66/EC
 Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

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