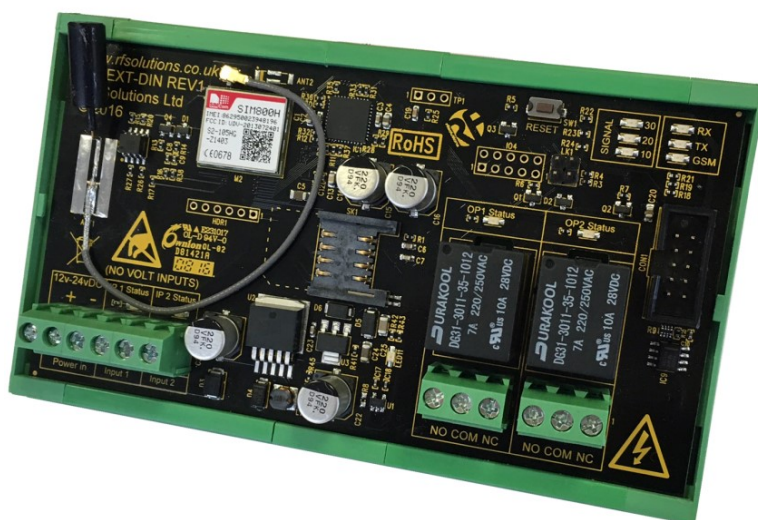


GSM Remote Control System

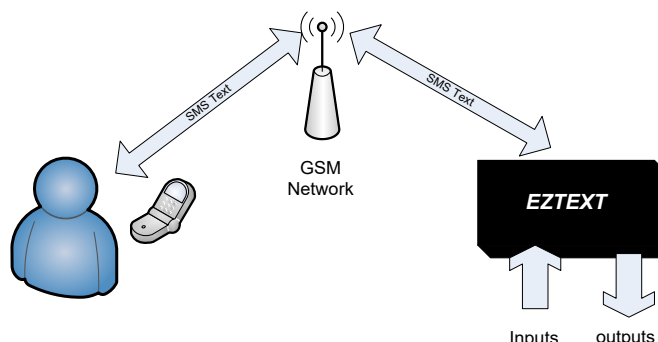
Features

- Two way remote control Via SMS Text
- Easy to install and configure using only SMS text message
- No PC required.
- 2 digital inputs (voltage free)
- 2 Relay Changeover contacts rated 240Vac 5A
- Expandable to 16 Inputs 16 Outputs
- Optional external temperature measurements
- User can set inputs and outputs names
- Worldwide quad-band GSM.



Applications

- Plant Maintenance,
- warnings / Alarms/ Reset.
- Irrigation Systems.
- Security Systems
- Heating Control
- Alert / Panic caller



Description

EZTEXT-DIN is a two way Remote Control System which is operated by sending an SMS text message. It will also send an SMS text to upto five numbers on activation of its inputs or temperature triggers. It provides two changeover contact switches and two 'no volt' switch detect inputs which are expandable via plug-in modules.

The user can give names to Inputs/outputs and create Custom messages. Setup is easy with a few simple SMS Text Commands.

Additional Input and Output Modules

The Add-on Modules simply plug into the EZTEXT Connector socket. Once connected the EZTEXT automatically recognizes them and the additional inputs and outputs become available to use in the Text commands just the same as the two onboard Inputs and outputs.

4 x Inputs Module

- 4 x Additional No-Volt Inputs
- Plug 'n' Play using ribbon cable supplied
- Up to 4 additional Input Modules can be Daisy Chained to provide 16 additional Inputs

Part Number	Description
725-IP	4 input Add-on Module

4 x Relay Output Module

- 4 x Relay Changeover Contacts
- Connecting ribbon cable supplied
- Up to four Output Modules can be Daisy Chained to provide an additional 16 Outputs.
- Up to 16 725-OP can be Daisy Chained with VCC linked.
- Provides a simple extension to the number of Inputs

Part Number	Description
725-OP	4 Output Add-on Module

Temperature Measurement Probe Cable

Using the cable adaptor CBA-EZTEMP provides a 1metre plug in cable with temperature probe. This enables the EZTEXT temperature monitor temperature and automatically send notification of high and low user selectable trigger level.

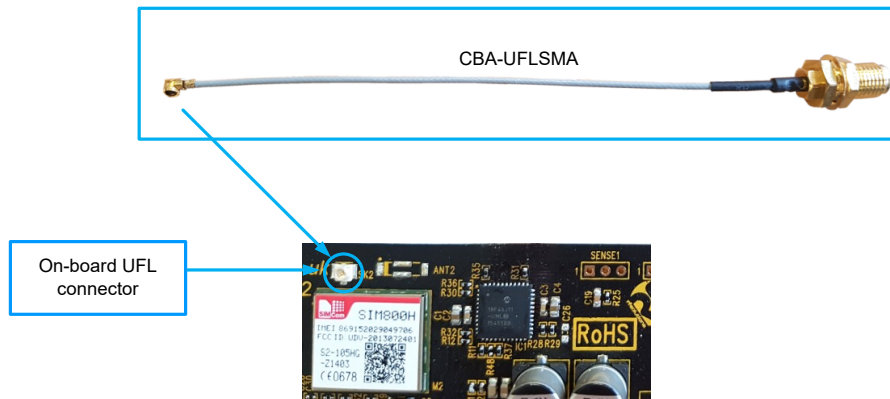


Part Number	Description
CBA-EZTEMP2	4 Output Add-on Module

Optional External Antenna

Using an external antenna can provide a better signal reception than the internal antenna. Using Cable adaptor CBA-UFLSMA provides a panel mounted SMA connector for external antenna connection.

To connect, carefully unplug the existing antenna UFL and push on the CBA-UFLSMA UFL connector.



ANT-GSM5WM

A compact PCB Antenna for GSM Cellular applications where high performance is required from a small size. Using the ANT-GSMQB will give optimum range and reliability to your application.

ANT-GSMPUKS-IP67

A compact Antenna for GSM applications where high performance is required from a small size. The antenna includes a Low Noise Amplifier and is housed in a rugged low profile UV resistant case, this antenna is compact and resistant to Vandalism.



Alternative Antenna

We offer an extensive range of GSM antenna in many shapes and sizes please see our Website or contact our Sales Dept with your requirements and we will try to help

Ordering Information

PART No	Description
EZTEXT-DIN	DIN Rail SMS control system
PSU-12V1A-IP	Power supply IP67
CBA-EZTEMPR2	Temperature sensor cable
CBA-UFLSMA	Cable assembly for external antenna

Insert SIM Card

Please note:

- Insert NANO SIMCard 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-DIN 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.

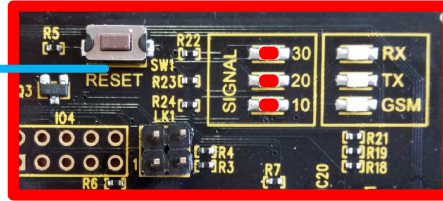
Connect Inputs/Outputs and Power Connections

The EZTEXT-DIN unit can be powered from 12 to 24Vdc



LED Indication At Start Up

Logging onto Network (traffic light sequence)						
30						
20						
10						



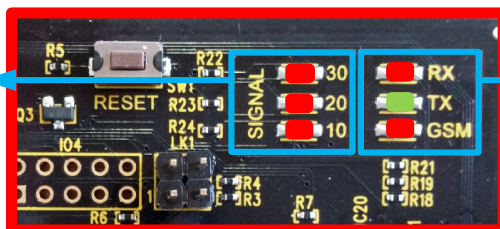
Error! (All Flash ON / OFF together)						
30						
20						
10						

Error - No GSM Service

1. Check SimCard
2. Check Antenna Connection

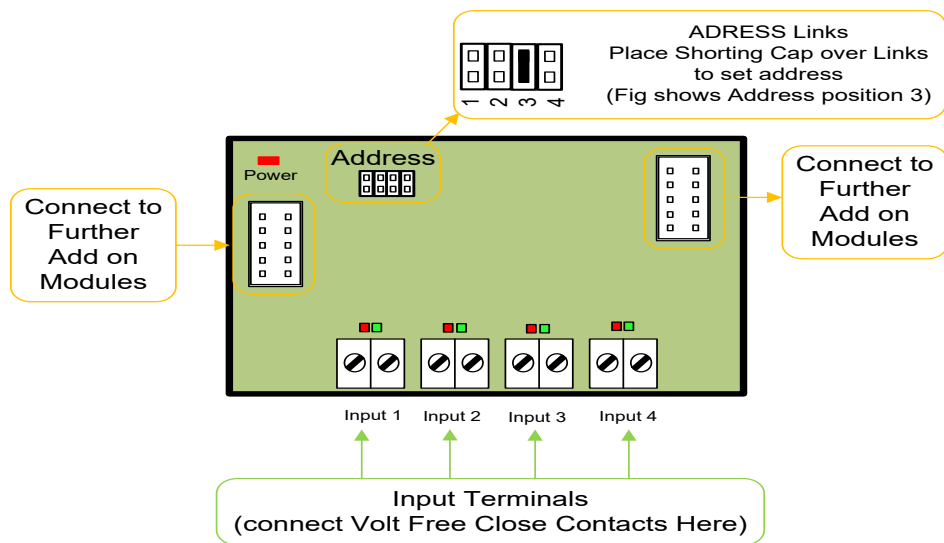
LED Indication After Start Up (Normal Operation)

Signal Strength		
Good	OK	Poor
		

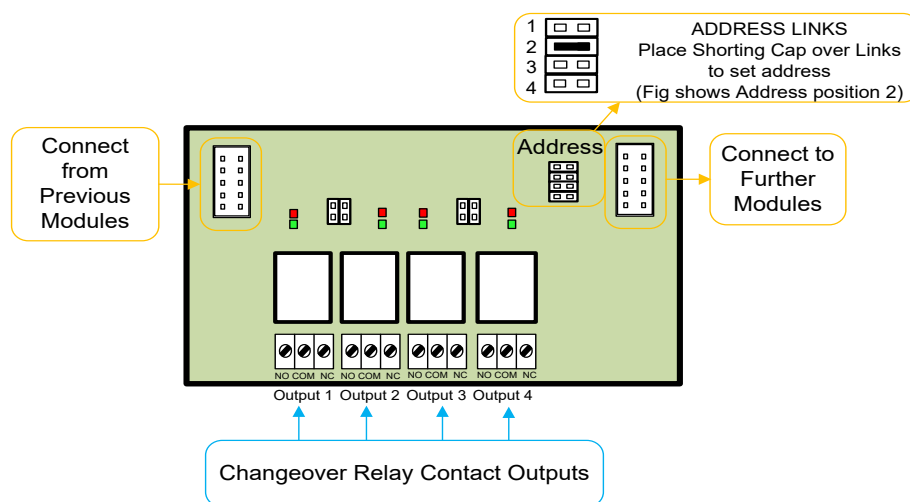


Activity LED's	
RX	Receiving an SMS
TX	Transmitting an SMS
GSM	Intermittent flash GSM healthy

725-IP Additional 4 Inputs Module



725-OP Additional 4 Outputs Module



Using Additional Input / Output Modules

Input and Output modules can be added by simply plugging in the supplied Ribbon cables.

On initial Powerup EZTEXT automatically interrogates and configures additional modules. (all LEDS Flash).

After approx. 60seconds the LEDs stop flashing to indicate the module is ready to use

Notes:

1. A Maximum of four, 4-Inputs Modules and four 4-Output modules can be added in any position in the 'Daisy Chan' link (8 modules in total)
2. To avoid operator confusion additional modules have limited functions.:
 3. Input modules can only be Switched (Open or closed contact) additional functions such as counting and time delays cannot be used.
 4. Output modules can only be switched ON and OFF (functions such as Time delays and counts cannot be set)
5. Each Input / Output Module requires its ADDRESS Jumper link to be set.
6. Ensure all Input modules have a unique address Link fitted 1-4, and all output modules have a unique address Link fitted 1-4.
7. For example if using one input and one output module they can both be set to address Link 1, but using two output modules the address must be different.
8. Inputs and Outputs are automatically denoted as per the table below

Address Link	Input Name	Output Name
1	IP3 to IP6	OP3 to OP6
2	IP7 to IP10	OP7 to OP10
3	IP11 to IP14	OP11 to OP14
4	IP15 to IP18	OP15 to OP18

Using EZTEMPR2 Thermocouple

Attach the Thermocouple cable to the Connector marked "SENSE"

This is now ready to use

Notes:

1. Temperatures are measured to 1 Decimal point
2. Temperature Triggers can be set to whole number values only
3. A hysteresis of -2°C is built into the EZTEXT

Example1

SET TEMP MAX is set to $+30^{\circ}\text{C}$

As the actual temperature measured increases, EZTEXT will trigger 'over Temperature' at 30.1°C

As the actual temperature measured decreases EZTEXT will trigger at 27.9°C

Example2

SET TEMP MIN is set to $+10^{\circ}\text{C}$

As the actual temperature measured decreases, EZTEXT will trigger 'under Temperature' at 9.9°C

As the actual temperature measured increases EZTEXT will trigger 'Good' at 12.1°C

Text Message Commands

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.

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.	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 off.	1234#RESPONSE#ON Turns on Response messages 1234#RESPONSE? Replies with the EZTEXT setting to responses

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#IPNUM1,00441234567891 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 input1 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	1234#IPDLY1,60 Input 1 has a 60sec delay before text is sent 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)

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,AIRCON 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	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) 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#0044127389 8000 1234 #PFNUM? Response: Returns current settings 1234 #PFNUMDEL Deletes all stored cell Nos against this
Text on power re-stored		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.	Building2 Reboot power had failed

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

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

Technical Specifications

Storage Temperature: -10 to +70°C.
Operating Temperature: 0 to +55°C.
EZTEXT Dimensions: 136 x 78 x 42 mm

Electrical Characteristics*	Min	Typical	Max	Dimension	Notes
Supply Voltage	12		24	V	
Supply Current for EZTEXT:					
Idle	24	35	45	mA	1
Operating	200	250	2A	mA	2
Closed Contact Input Time	100			mSecs	
Temperature Cable	-55		110	°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

+/- 0.5 degrees between -10 to +80-degree Centigrade

+/- 2.0 degrees between -55 to +110-degree Centigrade

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

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.

RF Solutions Ltd. Recycling Notice

Meets the following EC Directives:

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., fulfills its WEEE obligations by membership of an approved compliance scheme.

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