Manuals+ — User Manuals Simplified.

RF solutions PRO-EZTEXT26 2 IP 6 OP Channel Remote Control System Instruction Manual

Contents

RF solutions PRO-EZTEXT26 2 IP 6 OP Channel Remote Control System

Features

- Two way remote control Via SMS Text
- Easy to install and configure using only SMS text messages
- Modular Expandable System
- 2-18 digital inputs (volt free)
- 2-18 Relay Changeover contacts rated 240Vac 5A
- Text on Power Restore
- Integral Antenna supplied (External Option) Optional Temperature Sensor
- User can set inputs and outputs names Worldwide quad-band GSM.
- O2 SIM Card Included

Applications

- Plant Maintenance
- Warnings / Alarms/ Reset
- Irrigation Systems
- Security Systems
- Heating Control
- World-wide Telemetry Signals

Description

A GSM Remote Control System operated by SMS text message. Available as DIN Rail Modules or a ready made System within an IP56 enclosure Mains power supply and bundled SIM card ready to go. The user can switch the relay changeover contacts by sending a simple or custom text of their choice. EZTEXT will send an SMS text to up to five numbers on activation of one of its inputs or temperature set points. The user can give custom names to Inputs/outputs and create Custom messages. Setup is easy with a few simple SMS Text Commands.

Ordering Information

- PART No Description
- EZTEXT-DIN DIN Rail SMS Control System
- PRO-EZTEXT26 2 IP 6 OP Channel Remote Control System

Safety Information

Carefully read the following safety information before proceeding with installation, operation, or maintenance of RF Solutions product. Failure to follow these warnings could result in death or serious injury

- This radio system must not be used in areas where there is a risk of explosion.
- Only qualified personnel should be permitted to access the transmitter and operate the equipment.
- Always follow operating information as well as all applicable safety procedures and requirements.
- You must satisfy the age requirements in your country for operating the equipment.
- Store in a safe place.
- Keep a clear view of the work area at all time before using, check it is safe to do so

Before maintenance intervention on any remote controlled equipment

- Do not open the receiver enclosure unless you are qualified.
- Disconnect all electrical power from the equipment.
- Check the enclosure and cable for damage regularly, do not use if there is evidence of damage

Electrical Safety

ISOLATE the mains electricity supply before removing the cover and observe any relevant safety information.

- Maintenance to the product that involves removal of the cover should only be carried out by a competent person or qualified electrician.
- Ensure adequate protection on the Load circuit
- Refer to Product Datasheet for MAX operating Load.
- Product must be installed in accordance with the local country electrical regulations.
- A current limiting supply must be used in accordance with the datasheet
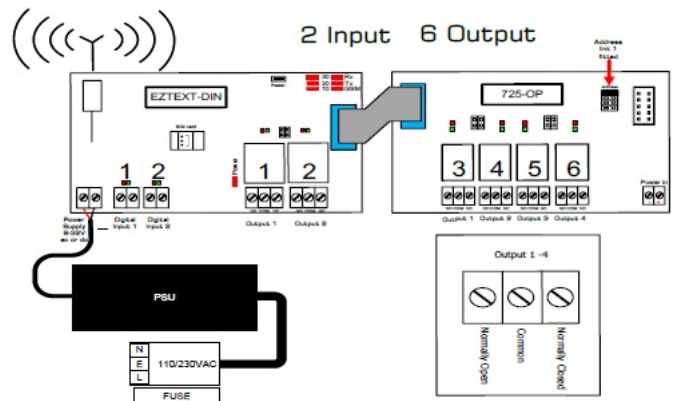
- 110-230Vac Power Supply Fused 5A
- 2 No Volt Switch inputs
- 6 Outputs Relay Changeover Contacts 240Vac 5A
- Enclosure IP56
- No PC required.
- SIM Card Bundled
- Dims 315 x 235 x 130mm

Supplied as a self contained two way Remote Control System which provides two 'no volt' switch detect inputs and 6 changeover relay contacts as outputs. The system comes supplied in an IP56 Enclosure with integral 12V power supply. Containing industrial standard 'DIN Rail' modules

Additional Input and Output Modules
The Add-on Modules simply plug into the EZTEXT-DIN Ribbon Connector socket. Once connected the EZTEXT automatically recognizes them and the additional inputs and outputs become available to use.

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
- Inputs are opto-isolated

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 4 x 725-OP can be Daisy Chained to provide 18 outputs.
- 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 Temperature sensor cable

Optional External Antenna

Using an external antenna can provide a better signal reception than the on-board antenna. Using Cable adaptor CBA-UFLSMA provides a panel mounted SMAconnector for external antenna connection. To connect, carefully unplug the existing antenna UFL and push on the CBA-UFLSMA UFL connector.

Connect to On-board UFL connector

Part Number	Description
CBA-UFLSMA	Cable assembly for external antenna
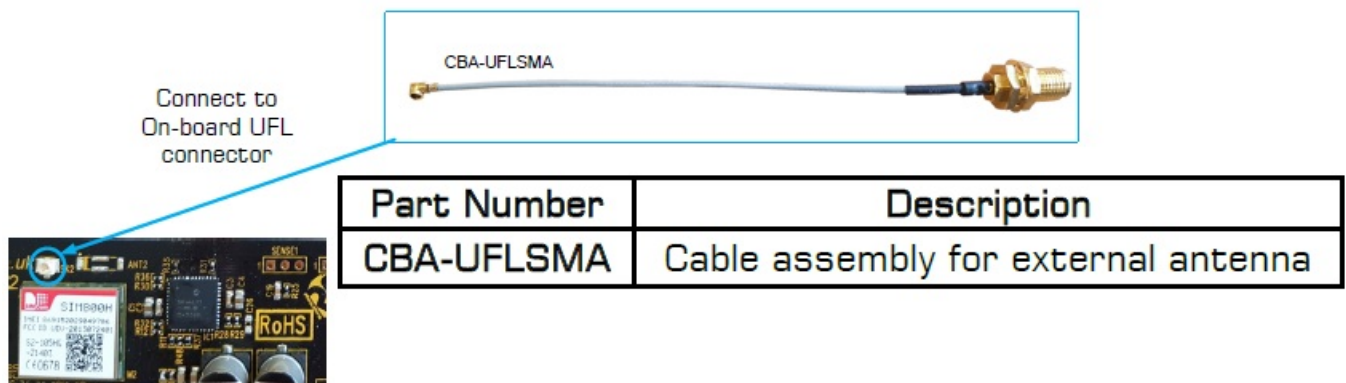
ANT-GSM5WM
A compact PCB Antenna for GSM Cellular applications where high performance is required from a small size. Using the ANT-GSMQB will give optimum range and reliability to your application

Part Number	Description
ANT-GSM5WM	+5dBm Gain antenna with wall mount

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

Part Number Description
ANT-GSMPUK-SMA +3dBm Gain antenna Rugged PUCK

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.

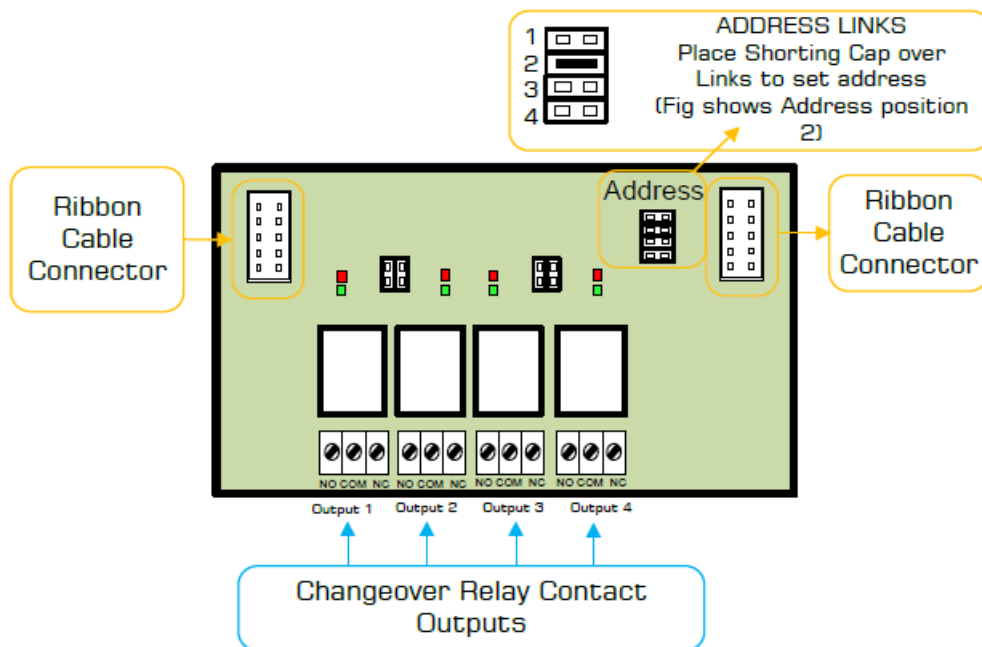**Using EZTEMPR2 Thermocouple**
Attach the Thermocouple cable to the Connector marked "SENSE" This is now ready to use:

Notes:

1. Temperatures are measured to 1 Decimal point

2. Temperature Triggers can be set to whole number values only

3. A hysteresis of –2oC is built into the EZTEXT

Example 1

SET TEMP MAX is set to +30oCAs the actual temperature measured increases, EZTEXT will trigger 'over Temperature' at 30.1oC As the actual temperature measured decreases EZTEXT will trigger at 27.9oC

Example 2
SET TEMP MIN is set to +10oC As the actual temperature measured decreases, EZTEXT will trigger 'under Temperature' at 9.9oC As the actual temperature measured increases EZTEXT will trigger 'Good' at 12.1oC

Using Additional Input / Output Modules

Input and Output modules can be added in any order by connecting with theRibbon cables supplied. 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. Any combinations of 725-IP and 725-OP modules can be added, the Maximum is four, 725-IP Modules and four 725-OP modules in the 'Daisy Chan' link (8 modules in total)

2. When using 725-IP / OP modules there are some limitations (compared with the two input and outputs on the ETEXT-DIN)

**725-OP Additional 4 Outputs Module**

- Each 725-OP module must have a different address Link setting to other 725-OP modules (For the application shown address Link 2 is fitted this sets the outputs to be numbers 7-10)
- Each Relay Changeover contacts Output can only be switched "On" or "Off".
- Functions such as time delays cannot be used.
- A single telephone OPNUM number applies per output

Example: the number allocated to an output board that you would use to send a text message to activate an output
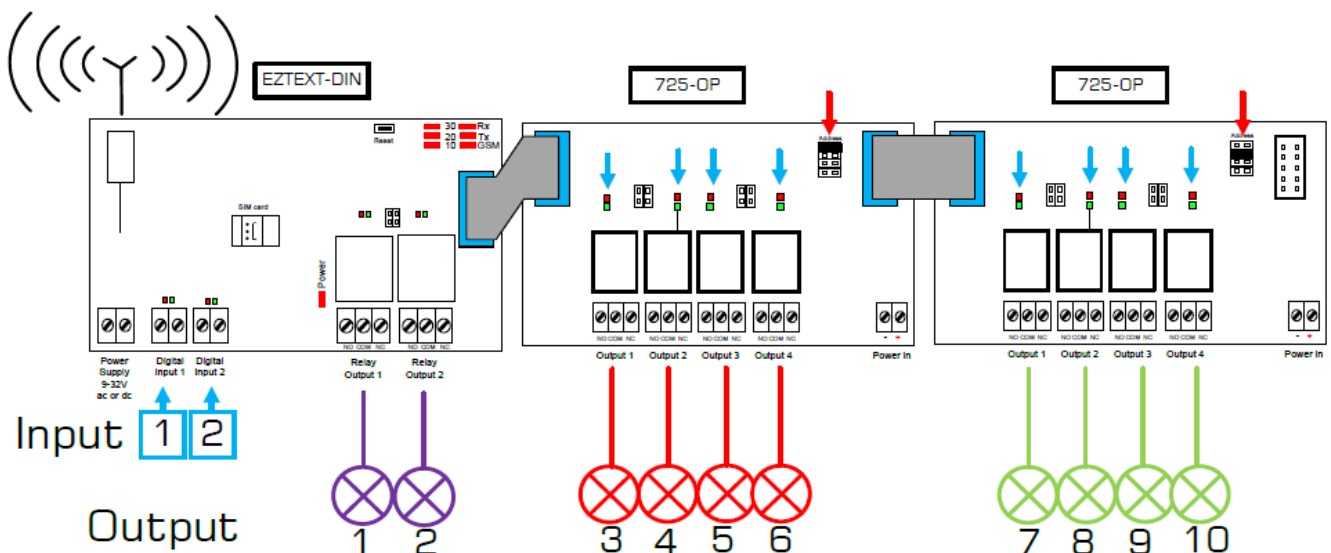
Insert SIM Card

Please note:

- Insert NANO 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 with the service provider.

The SIM card should be inserted into EZTEXT-DIN 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.
- 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

Module	ADDRESS LINK	OUTPUT NUMBERS	IPNUM
EZTEXT-DIN INPUT1/Output 1	N/A	1	1
EZTEXT-DIN INPUT2/Output 2	N/A	2	1
725-IP/OP Module	Link 1	3-6	2
725-IP/OP Module	Link 2	7-10	3
725-IP/OP Module	Link 3	11-14	4
725-IP/OP Module	Link 4	15-18	5

LED Indication At Start Up
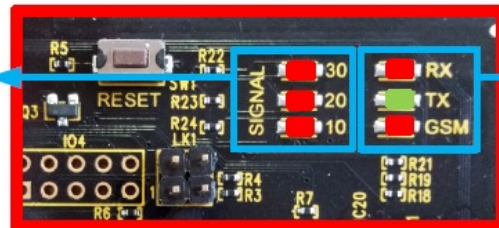
Logging onto Network (traffic light sequence)

30	☀	□	□	☀	□	□
20	□	☀	□	□	☀	□
10	□	□	☀	□	□	☀

Error! (All Flash ON / OFF together)

30	☀	□	☀	□	☀	□
20	☀	□	☀	□	☀	□
10	☀	□	☀	□	☀	□

Error - No GSM Service
1. Check SIM Card
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

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 isincorrect
- UNRECOGNIZED VARIABLE Password and command OK but the variable data is incorrect

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.

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 with no spaces.	1234#UID#DoorAlarm 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) with no spaces. n=1 - 2 for inputs1 to 2 UNITPW#IPNAME? Requests the name given to all inputs Please note that only the 2 inputs on the main EZTEXT-DIN module can be given a name.	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 - 2 for inputs1 to 2 UNITPW#IPNUM?n Requests all Stored cell Nos for that input UNITPW#IPNUMDELn n=1 - 2 for inputs1 to 2 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 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 - 2 for inputs1 to 2 '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 for 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 18 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 Please note that only the 2 outputs on the main EZTEXT-DIN module can be given a name.	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 Restored	PFNUM PFNUM? PFNUMDEL	Texts will be sent to cell phone numbers stored in PFNUM 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 PFNUM. UNITPW#PFNUM#<numbertotext> Sets the number to text on power restored (Max 5 separate numbers) 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 Example of text: 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#004 41234567891 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#3 0 Sets the upper trigger level to 30°C
Set maximum trigger temperature	SETTEMPMIN	UNITPW#SETTEMPMIN#n Sets the minimum temperature trigger level.	1234#SETTEMPMIN#2 0 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 Dimensions: 136 x 78 x 42 mm

Electrical Characteristics°	Min	Typical	Max	Dimension	Notes
Supply Voltage	12		24	V	
Supply Current for EZTEXT: Idle Operating	24 200	35 250	45 2A	mA mA	1 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 Hereby, RF Solutions Limited declares that the radio equipment type defined within this document is in compliance with Directive 2014/53/ EU. The full text of the EU declaration of conformity is available at the following internet address: **www.rfsolutions.co.uk**

RF Solutions Ltd. Recycling Notice

Meets the following EC Directives:

DO NOT

Discard with normal waste, please recycle.

ROHS Directive 2011/65/EU as amended by 2015/863/EU

Specifies certain limits for hazardous substances.

WEEE Directive 2012/19/EU

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. Environment agency registration agency number: WEE/JB0104WV.

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Documents / Resources

RF solutions PRO-EZTEXT26 2 IP 6 OP Channel Remote Control System [pdf] Instruction Manual

PRO-EZTEXT26 2 IP 6 OP Channel Remote Control System, PRO-EZTEXT26, 2 IP 6 OP Channel Remote Control System, EZTEXT-DIN, GSM Remote Control Systems

References

- **⚙ RF Solutions | Remote control systems, RF Modules, Antennas**
- **🌐 rtsintercom.com/**