



GSM Controller RTU5011

User Manual

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CONTENTS

I	Preface.....	3
	Package list.....	3
II	Introduction.....	4
	Features.....	4
	Parameter.....	5
	RTU5011 interface.....	6
III	Configuration guide of RTU5011.....	7
	3.1 Access setup mode.....	7
	3.2 Add “CS number”.....	9
	3.3 Basic parameter configuration.....	10
	3.4 Parameters for alarm.....	11
	3.5 ALL SMS.....	12
	3.6 CS’s authority.....	13
	3.7 Inputs_Outputs types.....	14
	3.8 Define alarm and recover sms of digital input.....	15
	3.9 Digital inputs timeouts.....	16
	3.10 Config digital inputs/outputs name.....	17
	3.11 CS’s DIN authority.....	18
	3.12 Analog input alarm.....	19
	3.13 Define alarm and recover sms of AD input.....	20
	3.14 Config AD inputs name.....	20
	3.15 CS’s AIN Authority.....	21
	3.16 Buzzer.....	22
	3.17 Tmp100 sensor (optional).....	22
	3.18 Internal battery (optional).....	23
	3.19 Realtime Interlock.....	24
	3.20 Timers.....	25
	3.21 Weekly Timers.....	26
	3.22 Program Interlock.....	26
	3.23 Define users commands.....	27

I Preface

Thank you for using the RTU5011 GSM RTU. You will know well about the functions and operation methods of this product quickly through this User's Manual.

This product is mainly used for remote alarming and control application based on GSM network. Please use it according to the parameters and technical specifications in the User's Manual. Meanwhile, the Notes shall be considered for the usage of radio-control products, especially GSM products. Our Company bears no liability for property loss or bodily injury arising from abnormal or incorrect usage of this product.

Package list



GSM RTU



RS232 cable



12V Adaptor



GSM antenna

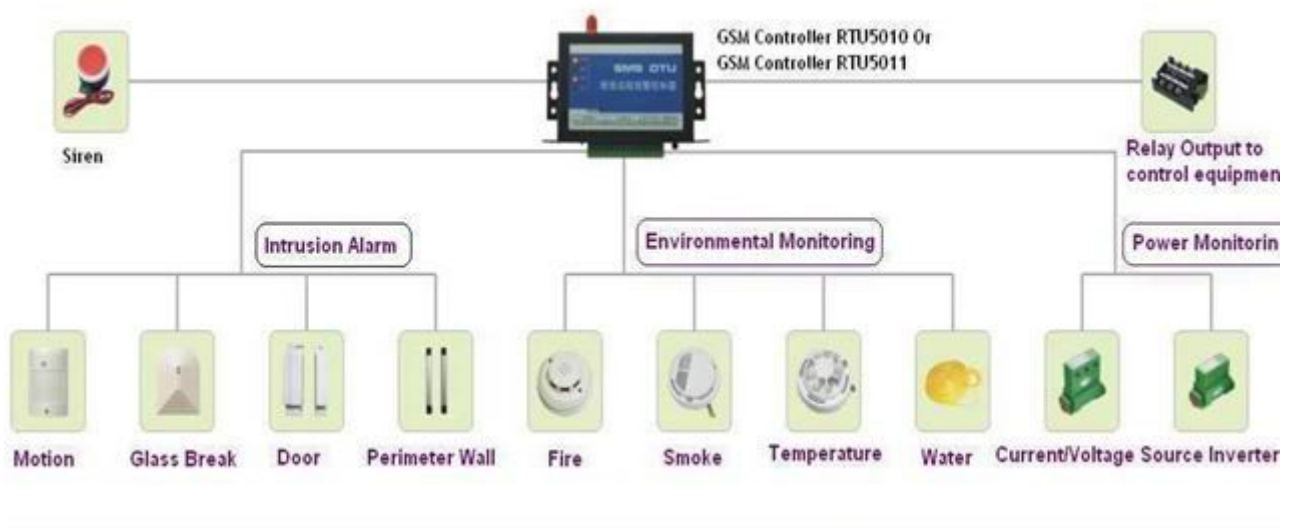


CD

II Introduction

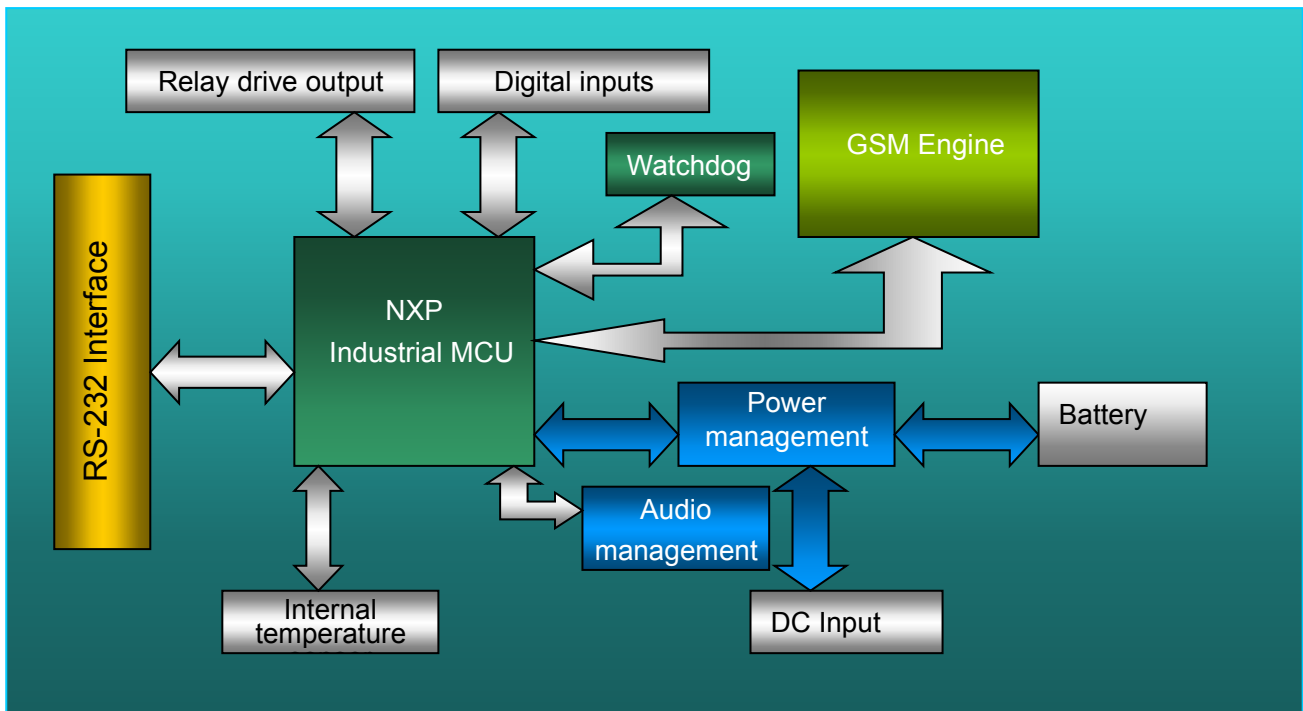
RTU5011 GSM RTU is designed as a cost effective remote control system alert device. It monitors up to 8 dry contacts and 8 drivable relay outputs and 4 AD input. User-defined SMS is sent to pre-configure mobile phone numbers when a pre-defined alarm condition happens. These pre-configured mobile phone numbers can belong to technicians or engineers who are responsible in handling corresponding alarms. With the aid of this GSM RTU, the alarm condition brings attention to in-charge personnel immediately. Besides it allows those mobile phone users to trigger any relay output by using SMS. The output can be connected with alarm indication device, such as alarm, and others.

There is a built-in microprocessor chip running on a real-time operating system. It gives immediate response to any change in both inputs and outputs condition. A GSM modem is embedded in the GSM RTU, user has to subscribe a SIM card for the GSM RTU. The GSM RTU can be installed in any location under GSM coverage.



Features

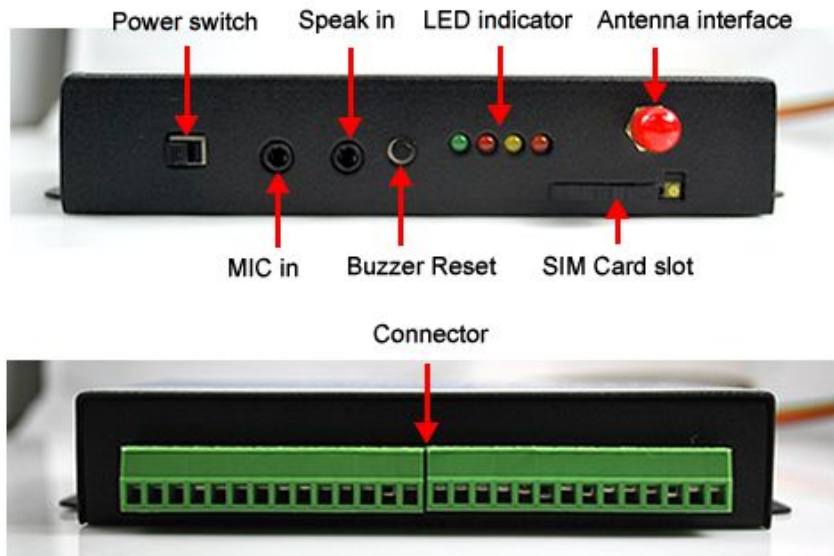
- 8 digital inputs, connect dry contact device
- 8 relay drivable outputs(12V-24V),drive electricity <0.2A
- 4 Analog input, 0-53 Ma,10 precision
- Reliable performance with built-in double watchdog
- Automatic device condition report through SMS every 24 hour interval
- User-defined alarm condition (normally close or open), alarm and recovery SMS message for each alarm point; Supporting drive relay output
- Maximum of 10 mobile phone numbers can be programmable
- Supporting voice monitoring
- Inside temperature sensor (optional)
- Being available for internal battery and providing power cut off alarm (optional)
- Configuration can be done via COM port.



Parameter

Parameter item	Reference scope
DC Power supply	9-28V DC (Standard adapter: DC 12V/1.5A)
Power consumption	12V input Max. 50mA/Average 50mA
Frequency range	Dual-frequency 900/1800 or 900/1800/850/1900
SIM Card	Supporting 3V SIM Card
Antenna	50 Ω SMA Antenna interface
Serial	RS232
Temperature range	-20-+70 °C
Humidity range	Relative humidity 95%
Output drive voltage	Equal to input DC voltage
Output drive power	Drive voltage ≤35V, drive current ≤200mA
On state input current	Max. 0.33mA
Input signal	Dry contact
Exterior dimension	130×80×25mm
Weight	330 g

RTU5011 interface



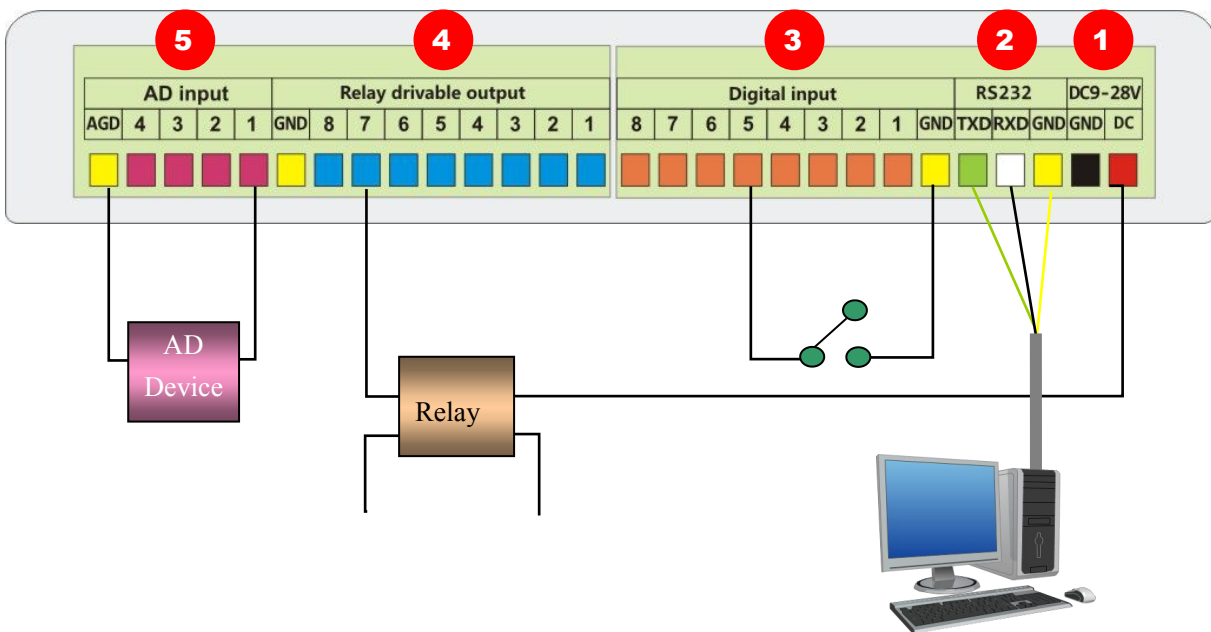
RTU5011 interface

LED indicator description

Indicator	Status	Indication description
PWR (Red)	Normally light on	Indicator for power supply, which will be light on when the system is power on
NET (Green)	Flicker	SMS module signal indicator, which will flicker slowly after the system is registered in GSM network
SRV (Yellow)	Light on during handling	It will be light on when the system receives or sends short messages and light off when the handling is over
ACT (Orange)	Flicker	It will flicker periodically when the system is under operation, and the interval time is 6 sec



Terminal Description



1. [DC9-28V]

Terminal	Description
DC	positive terminal of the DC power supply (+)
GND	Negative terminal of the DC power supply (-)

2. [RS232] :Connecting computer RS232 to config

3. 8 Digital input: Digital input connecting open or close contact

4. **8 relay drivable output:** driving relay close or open, Output drive voltage Equal to input DC voltage

Positive pole of relay coil connecting DC, negative pole of relay coil connecting DO,

5. **4 AD input:** connecting analog device and receive 0 to 53 mA signal.

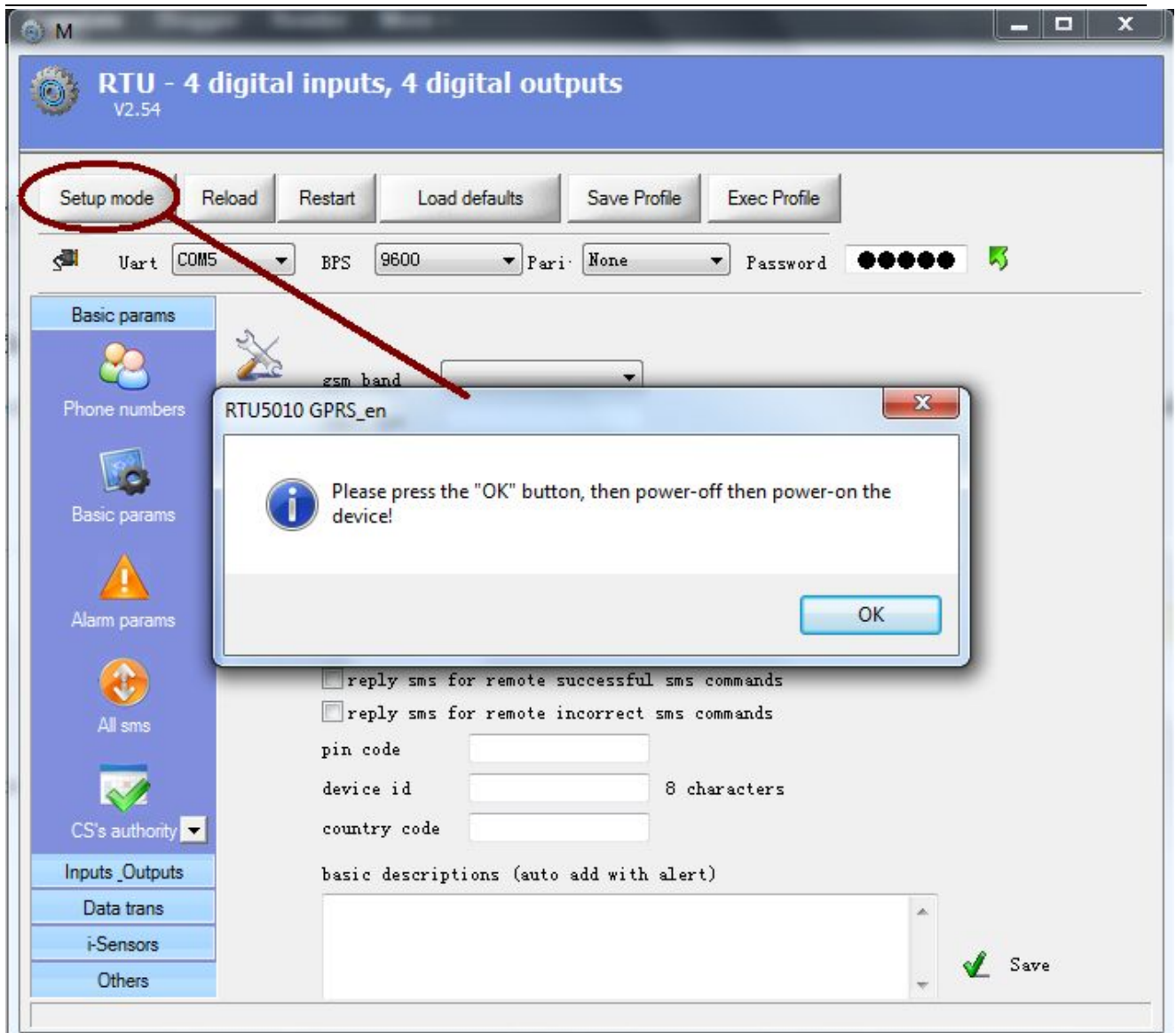
III Configuration guide of RTU5011

Basic Parameters

3.1 Access setup mode

Connect RTU5011 with RS232 of the computer and open the configuration software, make RTU5011 access setup mode according to the following figure.

⚠ Note: Please choose the serial port No. and rate correctly, the default communication rate is 9600; default password is "000000"



- Tips:**
1. Please ensure the Com port is correct. you can find out it at the Computer's Device Manager;
 2. then please switch off the RTU, and click the Setup Mode button, then click the pop-up windows' Ok.
 3. Switch on the RTU, then you can enter into the setup mode.

Definition: Working mode and setup mode

In setup mode, all functions is disabled, only to set parameters. And RTU5011 must be restart to enter working mode.

In working mode, all functions is enabled, the RTU5011 can alarm and control.

⚠ NOTE

Access setup mode, the simcard and antenna is no need, but access wording mode, the simcard and antenna is necessary.

⚠ How to know current mode:

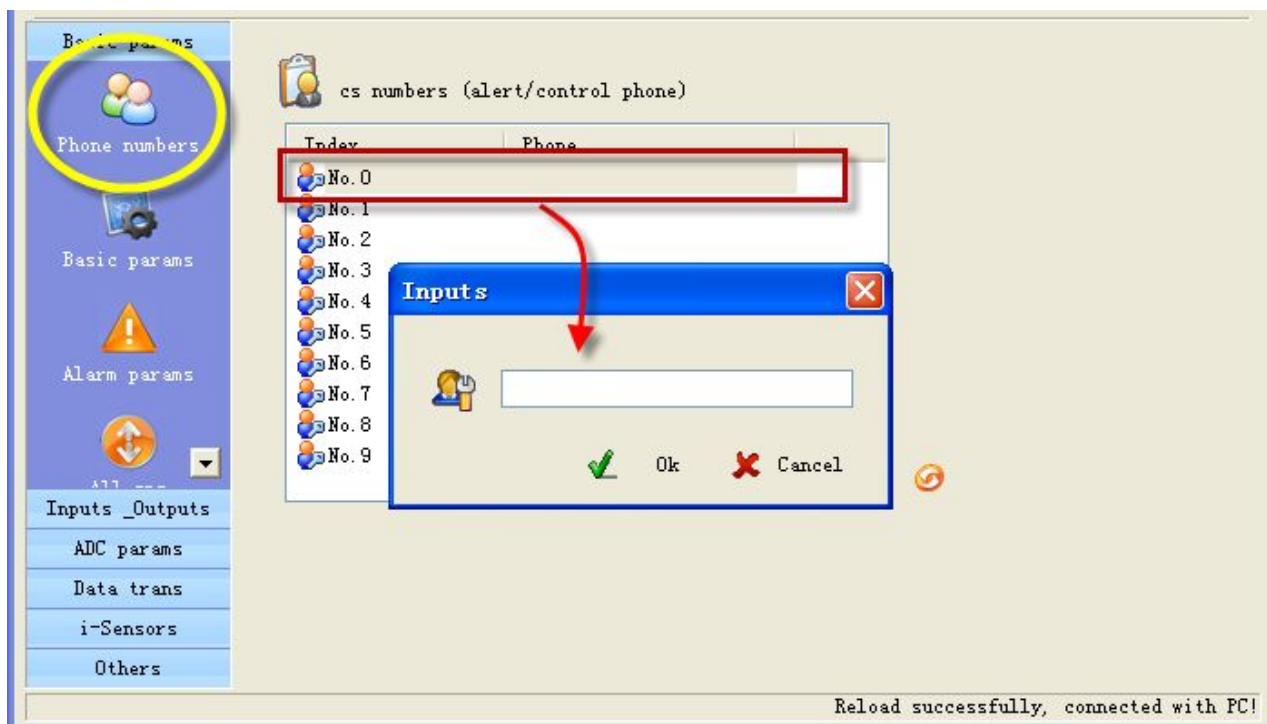
Method 1: Check the ACT light, if the ACT light flickers twice per second, that means it is under the setup

mode currently; the flicker period of the ACT light can be up to 6 sec under the working mode

Method 2: Check the information from the serial port, if the character string of “dtu come in setup mode” occurs, it means that RTU5011 is under the setup mode.

3.2 Add “CS number”

RTU5011 under working mode, the “CS number” can send sms commands to control RTU5011 and receive RTU5011 sms (include alarm sms, report sms etc). User can set 10 CS numbers, CS0-CS9



3.3 Basic parameter configuration

The screenshot displays the 'Basic params' configuration page. The sidebar on the left includes icons for 'Phone numbers', 'Basic params' (circled in yellow), 'Alarm params', 'All sms', 'CS's authority', 'Inputs_Outputs', 'ADC params', 'Data trans', 'i-Sensors', and 'Others'. The main configuration area includes the following fields and options:

- gsm band:** A dropdown menu.
- uart bps:** A text input field containing '9600'.
- uart:** A dropdown menu set to 'NONE'.
- alarm when gsm signal low:** A checkbox (unchecked) and a spinner box set to '11'.
- daily report at 10/a.m.:** A checked checkbox.
- send prooftime sms to cs when powerup:** An unchecked checkbox.
- send prooftime sms to sp when powerup:** A checked checkbox.
- sp number:** A text input field containing '10086'.
- reply sms for remote successful sms commands:** A checked checkbox.
- reply sms for remote incorrect sms commands:** A checked checkbox.
- pin code:** A text input field containing '1234'.
- device id:** A text input field with a note '8 characters'.
- country code:** A text input field.
- basic descriptions (auto add with alert):** A large text area for entering descriptions.
- Save:** A green checkmark icon followed by the text 'Save'.

At the bottom of the interface, a status message reads: 'Reload successfully, connected with PC!'.

Attention: gsm band, uart bps, uart, pin code, country code please using the default parameter

1. Alarm for GSM signal low: GSM signal normal range is 18-32,RTU5011 will send alarm sms to user when RTU5011's GSM signal value below 11

2. Daily report: When the daily report function is used, RTU5011 will send a report sms to all CS numbers at 10:00 every morning for reporting current states, through which the user can make sure the normal operation of RTU5011.

3. Prooftime

Prooftime is keeping the RTU5011's os (operation system) has correct time. RTU5011 can execute daily report, timing arm or disarm, timing output at correct time.

Send prooftime sms to cs when powerup: when RTU5011 powerup, it send a sms to CS0 to request prooftime, CS0 can reply sms"999" to RTU5011 to complete prooftime.

Send prooftime sms to sp when powerup: sp number is a service number of GSM operator, when RTU5011 powerup, it send a sms to sp, and waiting sp reply a sms to complete prooftime.

Attention: if GSM operator has not provide sp number or such services, you need not enable the option

4. Device description: you can add description with RTU5011 (such as install position , user information),the description will show in sms which RTU5011 send to you

5. Device ID: The device ID is a 8-byte ASCII characters which will be showed in the short-message received by CS, for example:

3.4 Parameters for alarm

Basic params

Phone numbers

Basic params

Alarm params

All sms

Inputs_Outputs

ADC params

Data trans

i-Sensors

Others

ring(phone call) when alert

auto answer call of service phonenumber

auto add basic description with alert sms

print RTU alarm events by com port

delay send sms time when alarm (sec)

holding time after disarm (sec)

when alert, sms resend times

Extend information with report

<input checked="" type="checkbox"/> Interior temperature	<input checked="" type="checkbox"/> Device's memo info	<input type="checkbox"/> AD0
<input checked="" type="checkbox"/> Device Id	<input checked="" type="checkbox"/> Power supply status	<input type="checkbox"/> AD1
<input checked="" type="checkbox"/> Arm status		<input type="checkbox"/> AD2
<input checked="" type="checkbox"/> Signal of gsm network	<input checked="" type="checkbox"/> Alarm digital inputs	<input type="checkbox"/> AD3

Save

Reload successfully, connected with PC!

1. ring when alert

Enable this option, RTU5011 will give CS number a phone call then send sms when alarm

2. auto answer call for service phonenumber

Enable this option, RTU5011 can auto answer call for service phone number, if MIC and speaker have been connected, user can monitor voice and speaking.

3. Auto add basic description with alert sms

Enable this option, the description (such as install position, user information) that have been defined by user will show in sms which RTU5011 send to service phone number.

4. print RTU alarm events by com port

Enable this option, when RTU5011 alarm, it send the alarm data to com port in RTU_IO data format

5. Arm delay and disarm delay

Define the time of "delay send sms time when alarm" (disarm delay time), in this way, you have an enough time to set RTU5010 in disarm mode when you go into the monitor area.

Define the time of "holding time after disarm" (arm delay time), in this way, you have an enough time to set RTU5010 in arm mode when user leave the monitor area.

6. Extend information with report

RTU can send report sms to cs phones by timer or user's inquiry by sms command, this function is designed to let user have chance to know the RTU is stilling working and main status of the RTU.



Multi parameters can be selected into daily report, include:

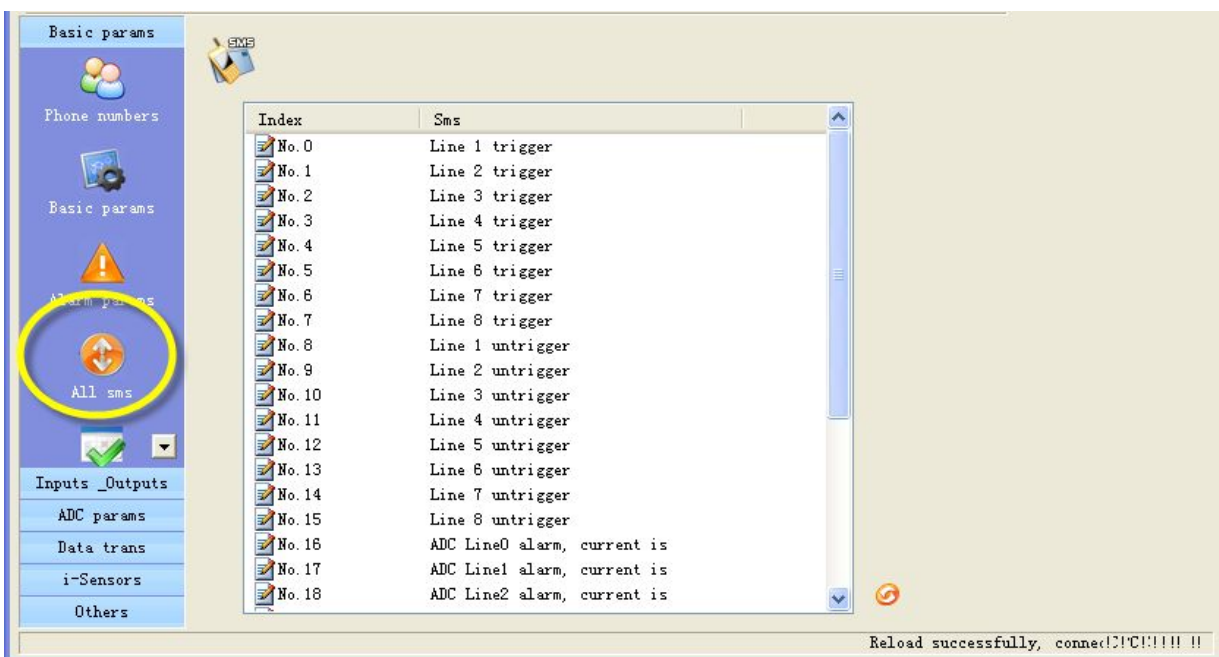
a. Interior temperature: if your's RTU5011 has added internal temperature sensor, the temperature value will show in the daily report.

Attention: A standard RTU5011 have not internal temperature sensor

- b. Device Id:** enable this option, ID will show in the daily report.
- c. Arm status:** enable this option, arm or disarm status will show in the daily report.
- d. Signal of gsm network:** enable this option, GSM signal value will show in the daily report.
- e. Device's memo info:** enable this option, Device description will show in the daily report.
- f. Power supply status:** enable this option, the daily report will show power supply status
- g. Alarm digital inputs:** enable this option, all digital input status (on or off) will show in the daily report.
- h. AD0~AD3:** enable those options, all the value of AD input will show in the daily report.

From: +8613480165874
 Equipment Id: 00000001
 Time: 9:58
 Signal value: 27
 Power supply: Normal
 Computer temperature: 30.5
 Description: Machine Room
 A1, Floor 4, Building 3
 AD input0: 12
 AD input1: 27
 AD input2: 32
 AD input3: 11

3.5 ALL SMS



In this page, you can see all sms contents that you have defined, include digital inputs alarm/recover

sms, AD inputs alarm/recover sms etc. you can Double-click it to modify.

3.6 CS's authority

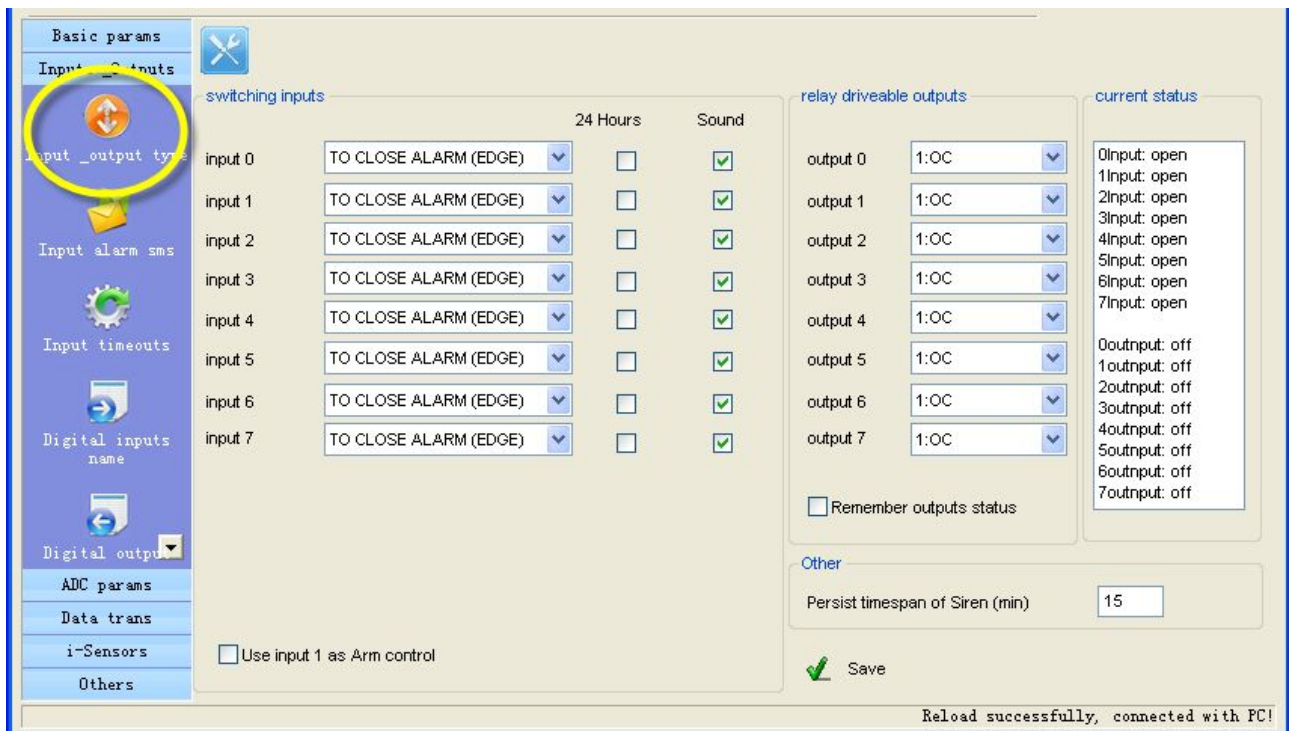
No.	Admin	modi...	modi...	powe...	dail...	time...	alar...	i-tm
CS0	0	0	0	0	0	0	0	0
CS1	0	0	0	0	0	0	0	0
CS2	0	0	0	X	X	0	0	0
CS3	0	0	0	X	X	0	0	0
CS4	0	0	0	X	X	0	0	0
CS5	0	0	0	X	X	0	0	0
CS6	0	0	0	X	X	0	0	0
CS7	0	0	0	X	X	0	0	0
CS8	0	0	0	X	X	0	0	0
CS9	0	0	0	X	X	0	0	0

The explanation of the CS's authority ("O" is enable, "X" is disable)

Authority	Explanation
admin	Can Arm/disarm or not
Modify by sms	This CS number can be modify by sms command or not
Modify servers	This CS number can modify other CS number by sms command or not
Powerup sms	Can receive the status sms or not when RTU is restarted by sms command
Daily report	Can receive the daily report or not
Timer mms	Null
Alarm mms	Null
I-tmp sms	Can receive the alarm sms or not when internal temperature sensor alarm
I-tmp ring	Can receive the alarm phone call or not when internal temperature sensor alarm
Battery fail sms	Can receive the alarm sms of power failure or not
Battery fail ring	Can receive the alarm phone call of power failure or not
Signal low alarm	Null
Sample sms	Null
M2M svr	Null
Arm notify	Null
PC alarm	Null

Inputs_Outputs

3.7 Inputs_Outputs types



Digital inputs types

RTU5011 provide 8 digital inputs, input signals can be divided into two types, EDGE_IN (edge triggering) and LEVEL_IN (state triggering).

ATTENTION: The key difference between Level and Edge is Level input has recovery notify message and Level inputs can repeat alarm status sms notify by an interval.



15/01
 Typical edge alarm



“24 Hours” property: If checked, the digital input will execute alarm action (send alarm sms, interlock etc) when it is triggered, even RTU5011 is in disarm status.

“Sound” property:

Means this line alarm event will cause internal buzzer and extend buzzer or siren action.

“Use digital input 1 as arm control” property:

Enable this option, RTU5011 is in arm mode if digital input 1 is opened, RTU5011 is in disarm mode if digital input 1 is closed, so user can connect a button to switch mode for arm or disarm

ATTENTION: Use digital input1 as arm control you need select the type of input1 is “TO CLOSE ALARM (LEVEL)” and delete the alarm/recover sms of input 1

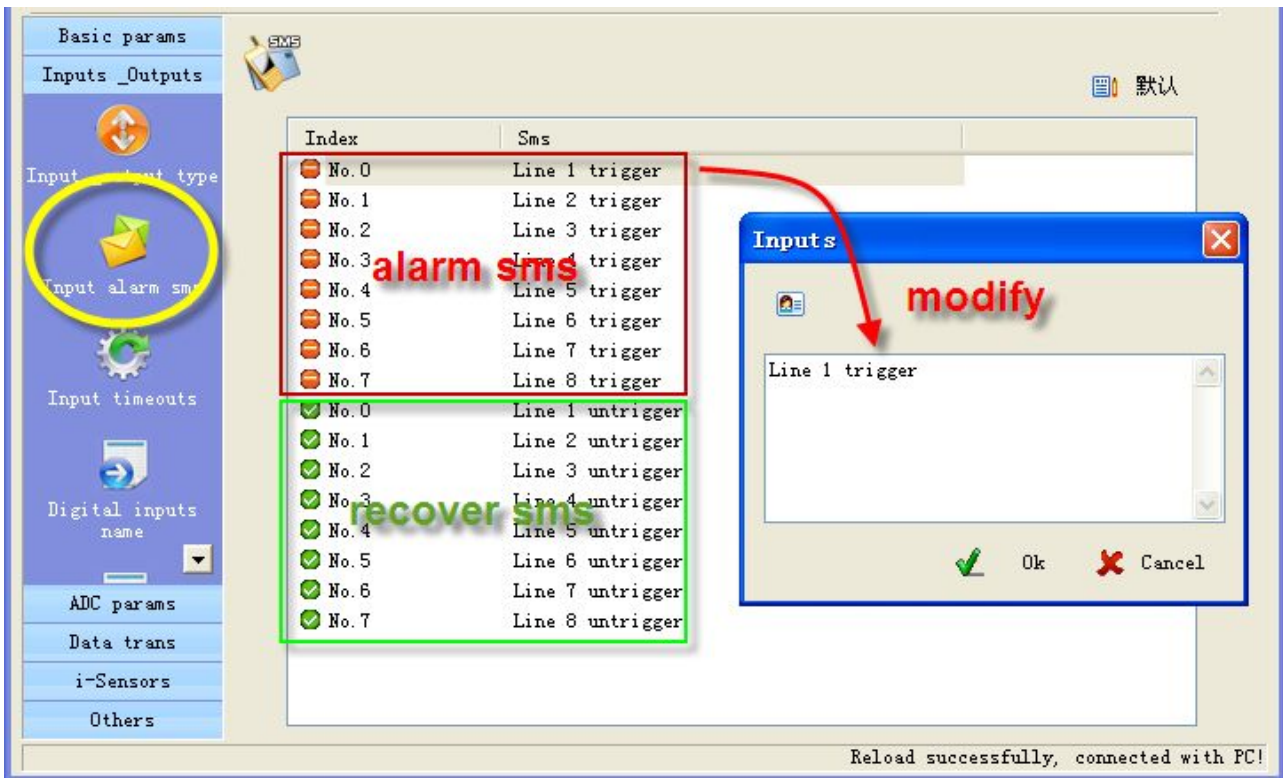
Output types

0	disable	
1	relay drivable output	8 relay drivable outputs,drive electricity <0.2A Output drive relay voltage Equal to input DC voltage Output power: Drive voltage ≤35V, drive current ≤200mA
2	Buzzer	This line’s actions will synchronize with internal buzzer.
3	SNAPSHOT	This line wills shortly action when any alarm happens.
4	SIREN	This line continuous drives for 1 minute by default. And the interval can be user define.

Remember outputs status

RTU5011’s outputs default status is open; it is possible closed during working. After restart, the outputs will be reset, status is open. If check the option, output can recover the status that before restart.

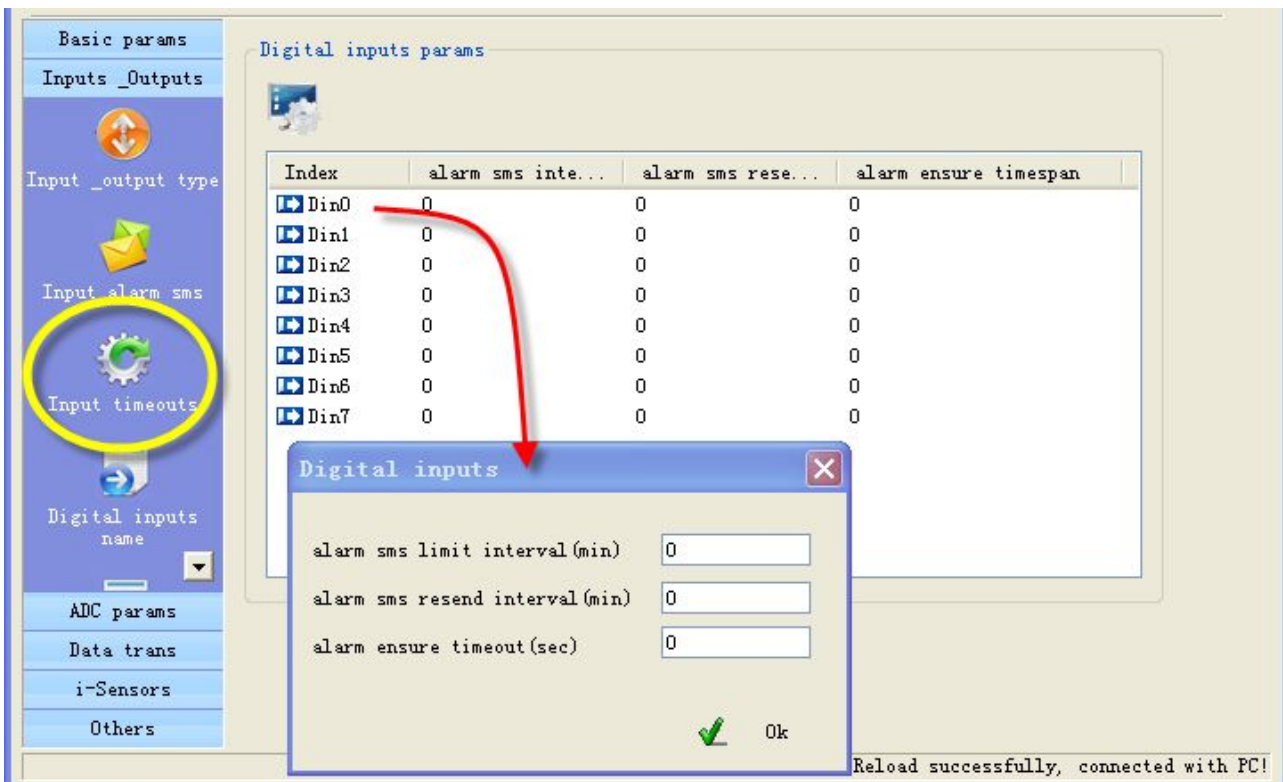
3.8 Define alarm and recover sms of digital input



All of the input line sms can be modify and re-define.

ATTENTION: a SMS composed of not more than 60 characters

3.9 Digital inputs timeouts

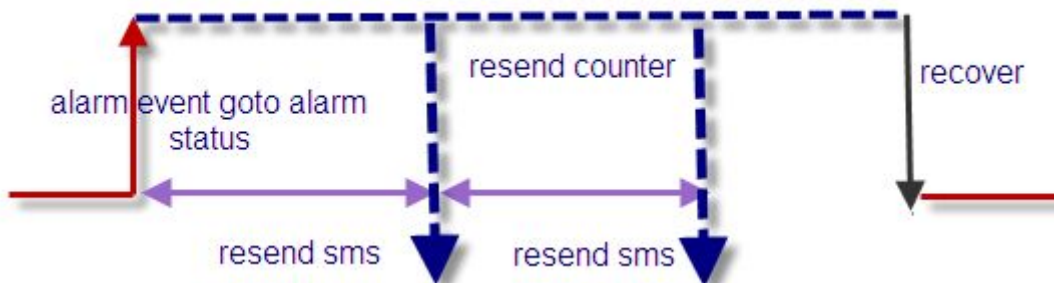


This page designed to setup input timeouts property. There are 3 interval related with inputs.

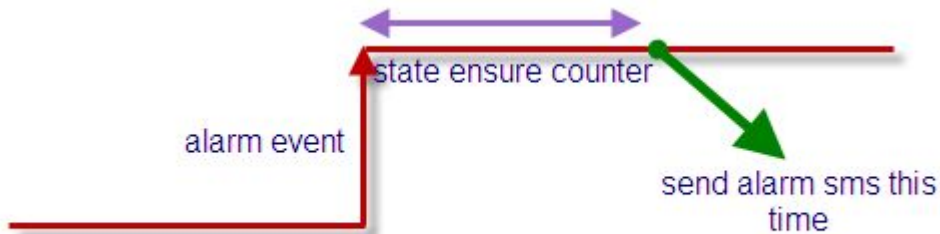
1. Alarm sms limit interval designed to avoid amounts of alarm/recover sms in a short time.



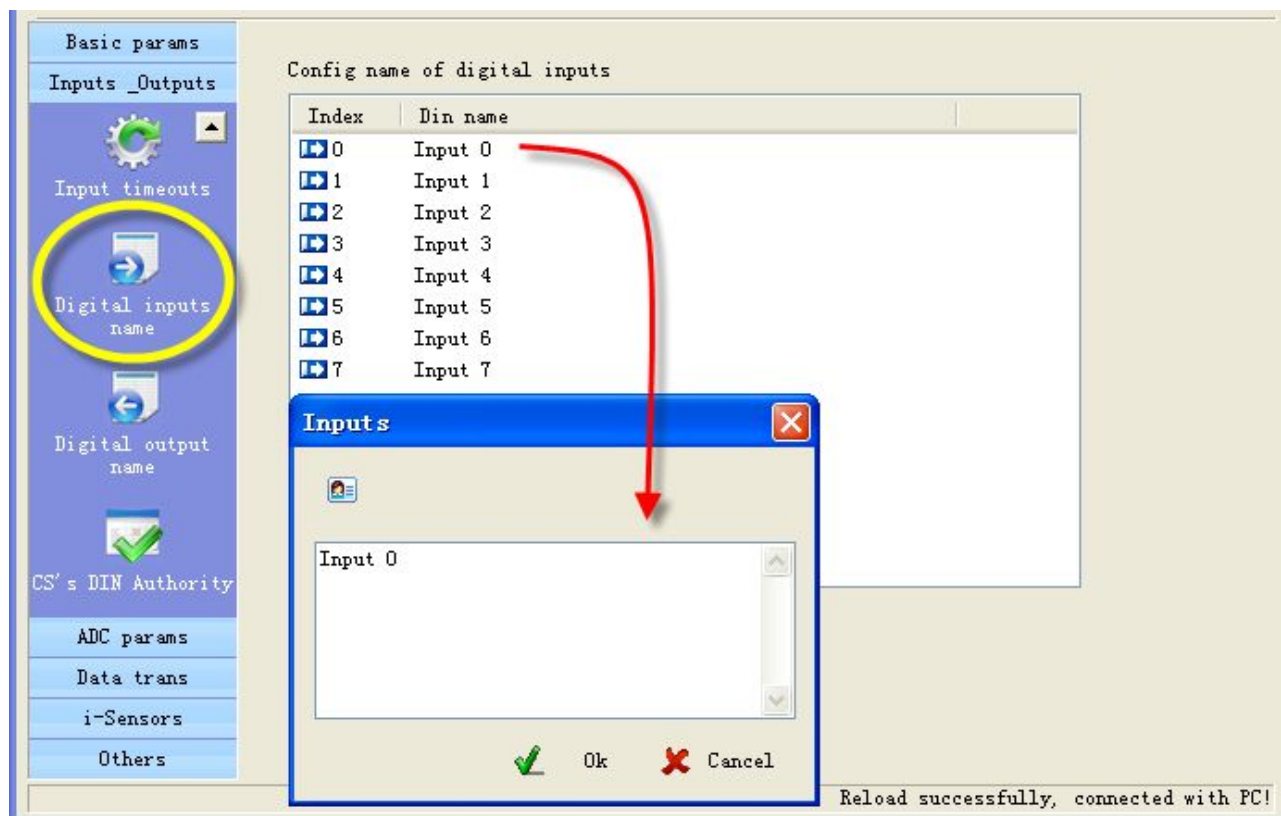
2. Alarm sms resend interval designed for repeat alarm status notifies to phones, 0 means disable repeat notification.



3. Alarms ensure timeouts is a counter of alarm status ensure timer, designed to avoid shake mistakes. 0 means no counter.



3.10 Config digital inputs/outputs name



If you send sms command to require inputs status, there is a contrast of returning

```
from: +8613480165874
High voltage: normal
Low voltage: alarm
High water level: normal
Low water level: normal
```

Have configed input name

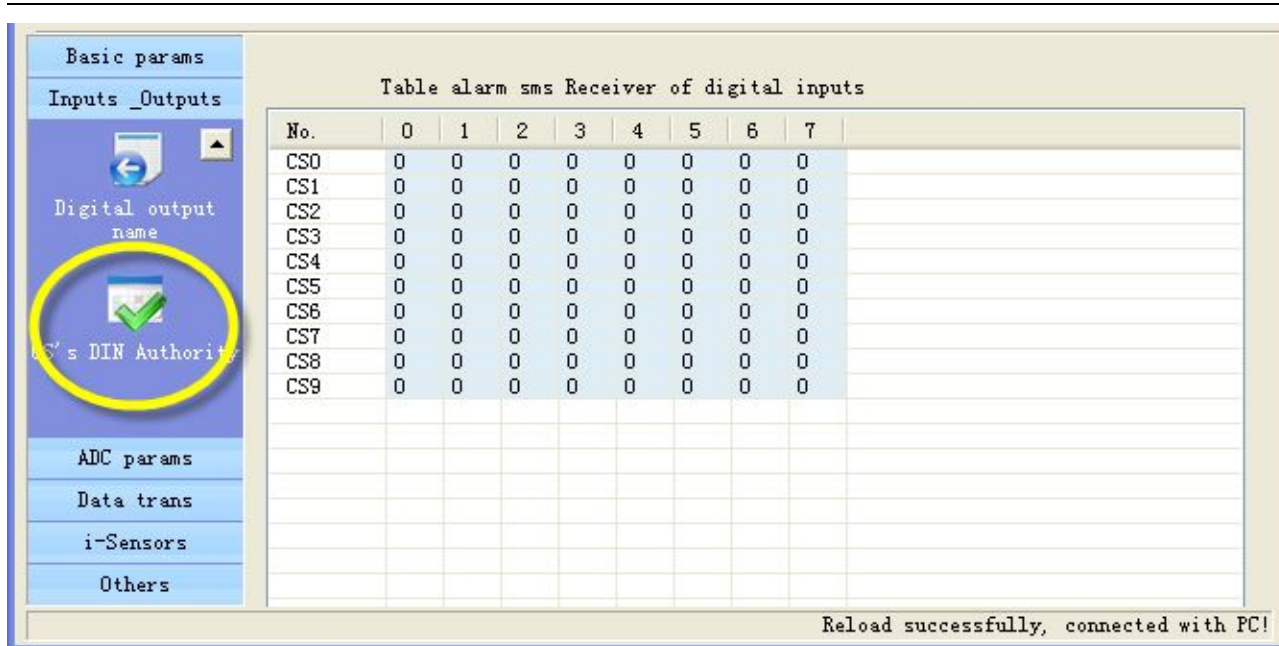
```
from: +8613480165874
Input 0 : normal
Input 1 : alarm
Input 2 : normal
Input 3 : normal
```

Have not configed input name

Config outputs name is same

3.11 CS's DIN authority

This page can setup the table of CS phone receive digital input line in alarm property.
 "O" means this Cs phone will receive related line in sms, "X" means not.



Example:

No.	0	1	2	3	4	5	6	7
CS0	X	0	0	0	0	0	0	0
CS1	0	X	0	0	0	0	0	0
CS2	0	0	X	0	0	0	0	0
CS3	0	0	0	X	0	0	0	0
CS4	0	0	0	0	0	0	0	0
CS5	0	0	0	0	0	0	0	0
CS6	0	0	0	0	0	0	0	0
CS7	0	0	0	0	0	0	0	0
CS8	0	0	0	0	0	0	0	0
CS9	0	0	0	0	0	0	0	0

This settings means CS0 don't receive line0 alarm
 CS1 don't receive line1 alarm sms.

ADC_Params

3.12 Analog input alarm

The analog input are designed to receive 0 to 53 mA signal from an analog sensor

You can preset a high and a low level for every AD input, if the input electrical signal is above the high level or below the low level, RTU5011 alarm. You can also send sms command to RTU5011 to get current value.

Example:

RTU5011 connect a temperature transmitter, its analog output range is 4-20 ma for monitor temperature range is 0°C-50°C, you need get alarm and current temperature value when temperature is above 40°C or below 10°C

Preset the values for "high", "low", "scale", "base" are:

No.	Low	High	Current	Scale	Base	Urgent	Sound alarm	Upload span
Ain0	10	40	0.00	19.84	12.50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.00
Ain1	0.00	0.00	0.00	62.00	0.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.00
				62.00	0.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.00
				62.00	0.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.00

“Urgent” property:

If checked, in any case, the RTU5011 will execute alarm action (send alarm sms, interlock etc) when the AD input is over normal range, even RTU5011 is in disarm status.

“Sound alarm” property:

means this line alarm event will cause internal buzzer and extend buzzer or siren action.

Upload span:

If the variation scope of AD input is more than the value of “upload span”, RTU5011 alarm

1. AINAS time : minimum time of twice AD alarm sms

After executed a alarm action (send alarm sms, interlock etc.) When AD inputs over normal range, in the AINAS time RTU5011 will not execute any alarm action (send alarm sms, interlock etc.) even AD inputs are over normal range frequently. The purpose of setting AINAS time is user will not receive many alarm

sms in the time during the AD input is over normal range frequently. "0" is disable

2. AINLS time: interval of resend AD alarm state sms

After executed a alarm action(send alarm sms, interlock etc.) when AD inputs over normal range, if the duration of the alarm signal overrun the AINLS time,RTU5011 will execute a alarm action(send alarm sms, interlock etc.) again. The purpose of setting AINLS time is alarm to user repeatedly at regular intervals during the AD input is in state of over normal range. "0" is disable

3. AINDLY time: timespan of ensure AD alarm

RTU5011 will not execute any alarm action(send alarm sms, interlock etc.) in the AINDLY time even AD inputs is over normal range, if the duration of the alarm signal overrun the AINDLY time,RTU5011 will execute a alarm action(send alarm sms, interlock etc.). "0" is disable

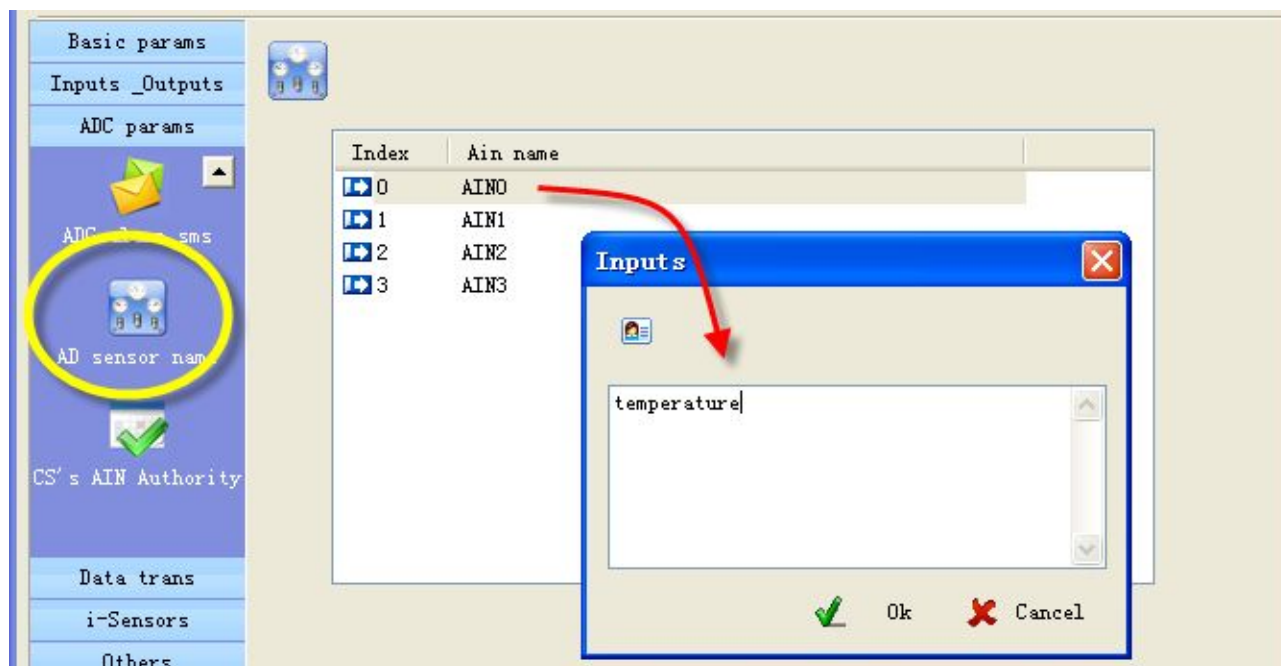
3.13 Define alarm and recover sms of AD input

Index	Sms
No.0	ADC Line0 alarm, current is
No.1	ADC Line1 alarm, current is
No.2	ADC Line2 alarm, current is
No.3	ADC Line3 alarm, current is
No.0	ADC Line0 recovered, current is
No.1	ADC Line1 recovered, current is
No.2	ADC Line2 recovered, current is
No.3	ADC Line3 recovered, current is

The current value is showed automatically in end of alarm or recovers sms.

ATTENTION: a SMS composed of not more than 60 characters

3.14 Config AD inputs name



If you send sms command to require AD inputs value, the AD inputs name show in the sms
For example, set the AD input 0 channel name is “temperature”, the sms is:

```
From: +8613480165874
Temperature current value : 21.33
AD input 1 current value: 60
AD input 2 current value: 0
AD input 3 current value: 0
```

ATTENTION: a name composed of not more than 24 characters

3.15 CS's AIN Authority

This page can setup the table of CS phone receive AD input line in alarm property.
“O” means this Cs phone will receive related line in sms, “X” means not.

Basic params

Inputs_Outputs

ADC params

ADC alarm sms

AD sensor name

CS's AIN Authority

Data trans

i-Sensors

Others

Table alarm sms Receiver of analog inputs

No.	0	1	2	3
CS0	0	0	0	0
CS1	0	0	0	0
CS2	0	0	0	0
CS3	0	0	0	0
CS4	0	0	0	0
CS5	0	0	0	0
CS6	0	0	0	0
CS7	0	0	0	0
CS8	0	0	0	0
CS9	0	0	0	0

Reload successfully, connected with PC!

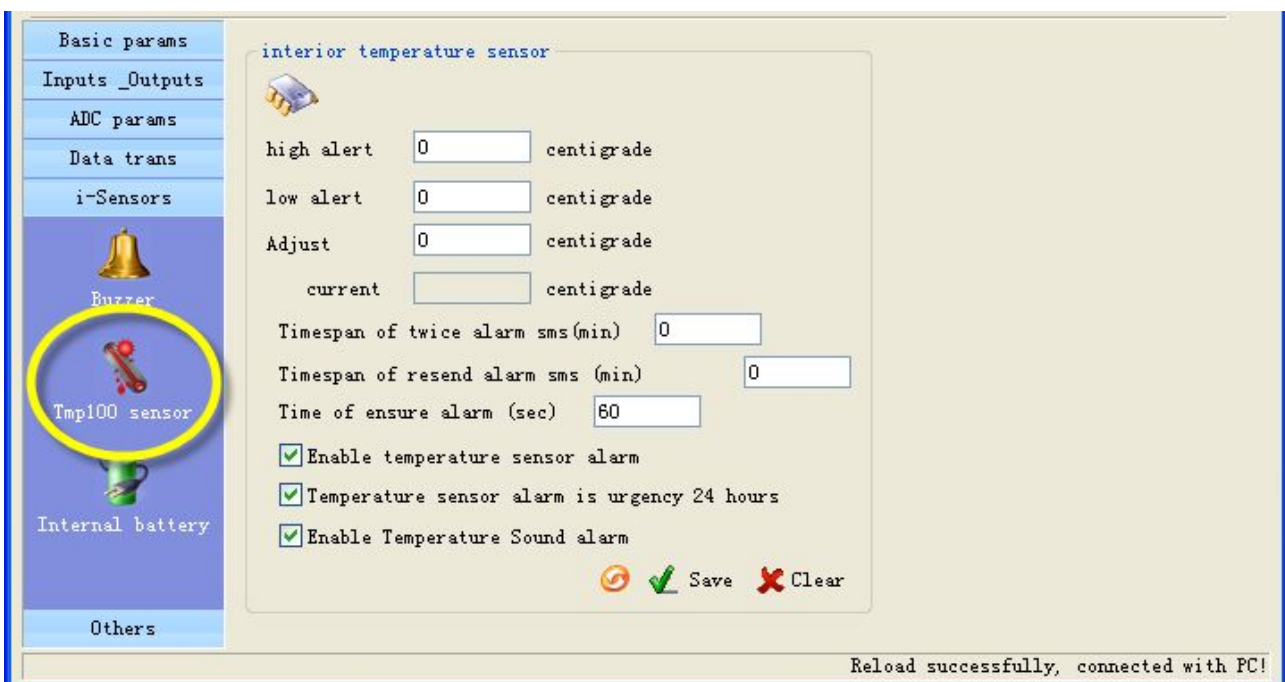
I-sensors

3.16 Buzzer

A buzzer is installed in the RTU5011. The buzzer will be activated when alarm, it can be stopped by the buzzer reset button on RTU5011 panel, or through sending the command with CS number remotely. In this page, you can enable or disable the buzzer and set interval time of alarm



3.17 Tmp100 sensor (optional)



TMP100 as an optional temperature sensor can inside RTU5011; you can preset a high and a low

temperature value, if temperature is over normal range, RTU5011 alarm. You can send sms command to RTU5011 to get current temperature value.

User can set "Adjust" value to calibrating temperature value

1. TMPAS time: timespan of twice alarm

TMPAS time is designed to avoid amounts of alarm/recover sms in a short time.

2. TMPRS time: timespan of resend alarm sms

Designed for repeat alarm status notifies to phones, 0 means disable repeat notification.

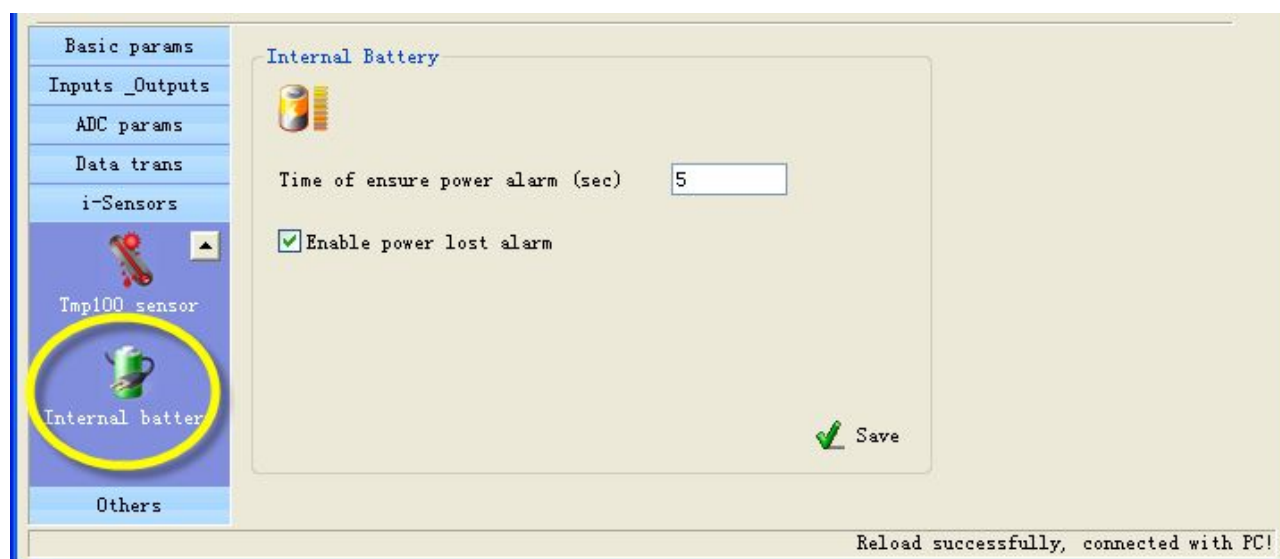
3. TMPDLY time: time of ensure alarm

It is a counter of alarm status ensure timer, designed to avoid shake mistakes. 0 means no counter.

3.18 Internal battery (optional)

The internal battery is optional attachment; it is designed to realize power lost alarm

When external power cut off, RTU5011 Powered by internal battery and alarm to user



POWDLY time: time of ensure power alarm

When the time of external power lost is over POWDLY time, RTU5011 alarm, "0" is disable

Battery parameter:

- Lithium battery
- Voltage: 3.7V
- Capacity: 800mAh
- Limited voltage for charging 4.2V
- Implementation standard GB/T 18287-2000

Others setting

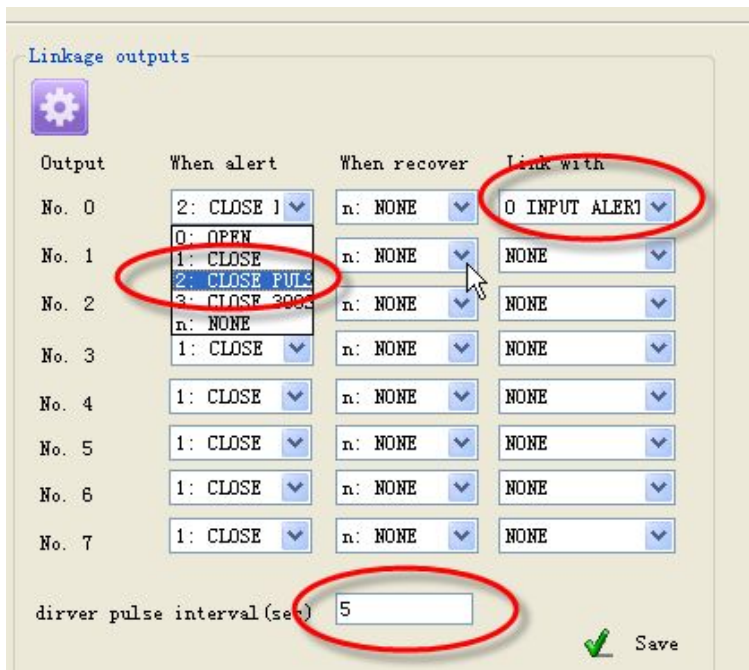
3.19 Realtime Interlock



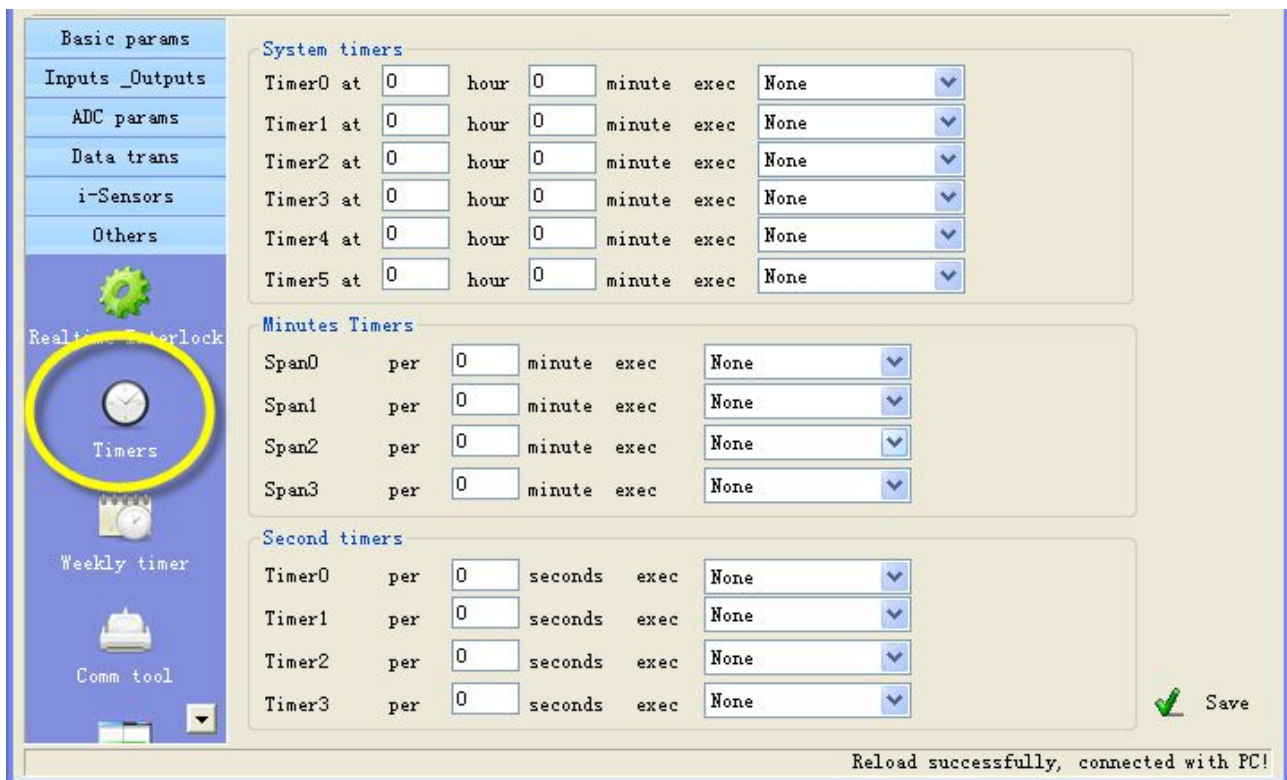
Realtime interlock is a local strategy, it is designed to outputs execute action automatically under some internal triggering conditions,

For example

If digital input 0 alert, output 0 close pulse 5 seconds



3.20 Timers



Timers is designed to time execute task, task include arm, disarm, open/close output etc.

System timers

6 times can be set in a day, RTU5011 execute a task in each time.

For example, at 8:30 execute arm, at 17:00 execute disarm.

System timers

Timer0	at	8	hour	30	minute	exec	Arm	▼
Timer1	at	17	hour	00	minute	exec	Disarm	▼
Timer2	at	0	hour	0	minute	exec	None	▼
Timer3	at	0	hour	0	minute	exec	None	▼
Timer4	at	0	hour	0	minute	exec	None	▼
Timer5	at	0	hour	0	minute	exec	None	▼

Minutes timers

Set minutes value for the timers, RTU5011 execute a task every the interval time.

For example, RTU5011 execute output 0 pulse every 30 minutes

Minutes Timers

Span0	per	30	minute	exec	Pulse D00	▼
Span1	per	0	minute	exec	None	▼
Span2	per	0	minute	exec	None	▼
Span3	per	0	minute	exec	None	▼

Second timers

Set second value for the timers, RTU5011 execute a task every the interval time.

ATTENTION: before you the timers, you have to update RTU5011's clock, the method of update clock please see "Basic parameter configuration" above

3.21 Weekly Timers

Basic params

Inputs_Outputs

ADC params

Data trans

i-Sensors

Others

Weekly timer

Comm tool

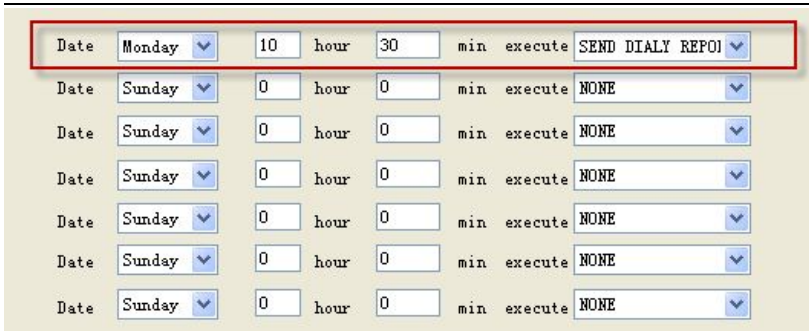
Date	Sunday	▼	0	hour	0	min	execute	NONE	▼
Date	Sunday	▼	0	hour	0	min	execute	NONE	▼
Date	Sunday	▼	0	hour	0	min	execute	NONE	▼
Date	Sunday	▼	0	hour	0	min	execute	NONE	▼
Date	Sunday	▼	0	hour	0	min	execute	NONE	▼
Date	Sunday	▼	0	hour	0	min	execute	NONE	▼
Date	Sunday	▼	0	hour	0	min	execute	NONE	▼

Save

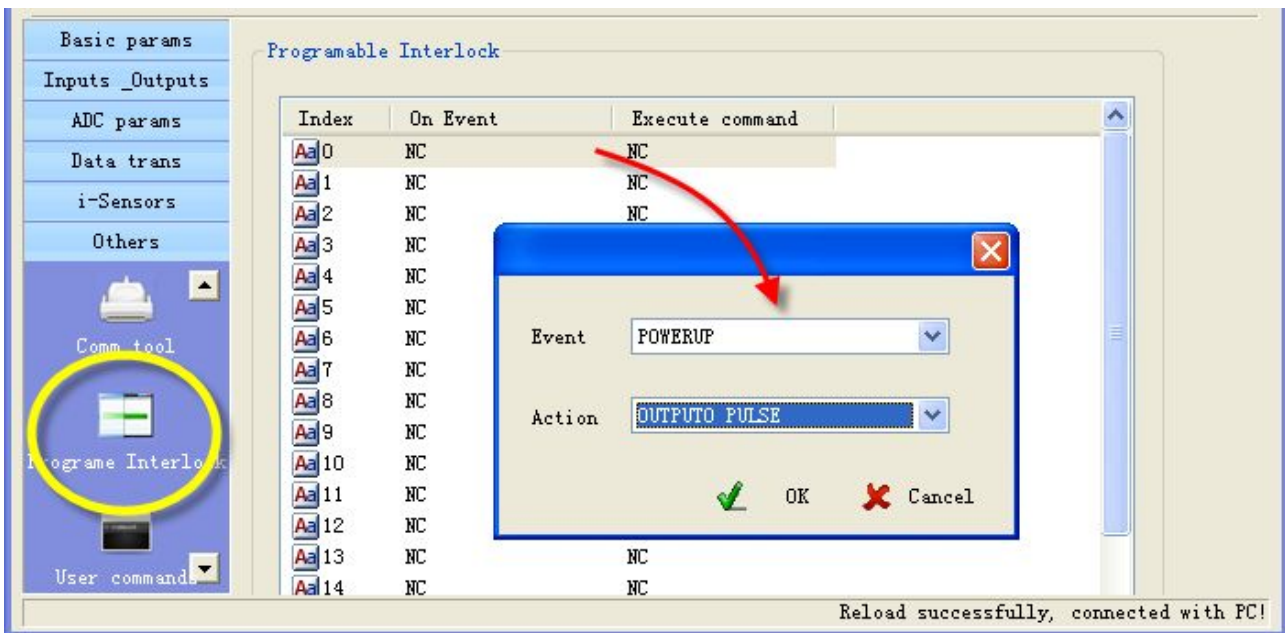
Reload successfully, connected with PC!

7 times can be set in a week, RTU5011 execute a task in each time.

For example, at Monday 10:30 execute send daily report



3.22 Program Interlock



Program interlock is a local strategy; it is stronger and more flexible than realtime interlock. You can set RTU5011 execute many actions automatically according to various types of system events. If event happens, RTU5011 execute action.

For example, if RTU5011 powerup, output 0 pulse 1 second

3.23 Define users commands

Users can define 6 commands instead of system commands.

For example, user set “close” instead of system command “IOOH”, so user can send “close” to close output

