

GSM Alarm

RC37



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GSM Alarm RC37



- 8 Alarm Digital inputs
- Programmable SMS Message
- Buffer 32 Alarm (Network Fail 15 Minute)
- 2 Digital Output Controlled by SMS
- Built-in 3G Modem (UMTS/HSDPA)

GSM ALARM RC37 is device which send alarm message to desire mobile phone. RC37 have 8 digitals input, up to 15 receivers. Whenever status of each digital input has been Check RC37 will send SMS to receiver mobile phone. More over RC37 have 2 digital output which are controlled by SMS

Dimension (Unit: mm.)



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I. Application



DateTime	Sender	Message
13/1/2553 17:56:51	66896252145	Rayong Plant : Tank B High Temp
13/1/2553 15:05:25	66891542156	Bangkok Plant : Tank B Low Alarm
12/1/2553 8:14:37	66894258474	Saraburi Plant : Power Up
11/1/2553 10:44:45	66894258474	Saraburi Plant : Power Fall
11/1/2553 22:30:55	66895845845	Rayong Plant : Tank A High Alarm

SMS Report for computer



Example : Alarm a malfunction of the cold room

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II. Wiring Diagram



	Digital Input							[Dig	gital	Outp	out	Su	oply	
1	2	3	4	5	6	7	8	9		10	11	12	13	14	15
Com	IN1	IN2	IN3	IN4	IN5	IN6	IN7	IN8	[DC	D1	DC)2	N()	L(+)
	ہے م	۶ ۲	Ŷ	۰/ ۲	Ŷ	Ŷ	۶ ۲	ý							

Digital Input

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III. Remove SIM Card



In order to remove SIM Card user need to turn power off then follow the step:

Push the yellow button



✤ Remove SIM Card Tray



✤ Put SIM Card into the tray



✤ Insert SIM Card Tray back to the slot



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IV. Connect to PC

Connect via USB Port

USB have 2 types which are Standard A and Standard B. Standard B use to connect to RC37 and Standard B connect to USB Port of computer PC



USB standard A, USB standard B and USB port of Computer PC



Connect RC37 to Computer PC via USB Port



V. Function of RC37



Wiring Diagram

- Wisco RC37 GSM Alarm is for setting up RC37 such as set Module name, receiver phone number, number of mobile that can control RC37 output, Alarm message.
- RC37 has working sequences as:
 - RC37 received input signal and then check with alarm condition that has been set. SMS will be send according to user setup
 - > RC37 digital output will be controlled by authorized SMS
 - RC37 can send SMS to inform status of each input and output by send SMS with instruction code

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ile <u>M</u> odule <u>H</u> elp					
🕽 Write 🔇 Read 🥖 Dis	sconnect				
Ionitor	C Sending SM	IS			
Signal	Phone numb (668xxxxxxxx	oer vì Message			
Ψ	(00000000000000000000000000000000000000				Send
	- Configuratio	n			
Level 80.0 %	Station N	ame RC37			
Check	Recipien	ts' phone number	Filter list by phor	ne number	
	(668xxxx	xxxx)			
SIM card	<u>) 1</u>	6686797xxx		6797xxxx	
Status Sim OK.	2		✓ 2 2		~
Check	Digital In	puts			
Digital Input/Output				Delay	
🕕 Di1 👊 Di5	Input	Off To On	On To Off	Time (sec)	Enable
🕕 Di 2 👊 Di 6	Input 1	Off To On	On To Off	1 🗸	
🕕 Di3 👊 Di7	Input 2	Off To On	On To Off	1 🗸	
🕕 Di4 🖤 Di8	Input 3	Off To On	On To Off	1 🗸	
0 D-1 0N	Input 4	Off To On	On To Off	1 🗸	
	Input 5	Off To On	On To Off	1 🗸	
Do 2 OFF	Input 6	Off To On	On To Off	1 🗸	
Band	Input 7	Off To On	On To Off	1 🗸	
Read	Input 8	Off To On	On To Off	1 ~	

Wisco RC37 GSM Alarm

Wisco RC37 GSM Alarm is program for config RC37 set up, SMS testing, indicate signal strength, check status of input and output and can control output.



1. Note before using Wisco RC37 GSM Alarm USB Port

- Supply power to RC37 before connect to USB port
- ✤ For the first time used driver of USB Port must be installed as detail

1.1 Install Driver USB

Driver USB of RC37 can be found on CD or Company website

www.wisco.co.th/main/downloads

- Insert CD to CD/DVD-ROM
- Turn on power of RC37
- Connect USB between PC computer and RC37
- Wait until "Found New Hardware Wizard" pop up



Check on 💿 Install from a list or specific location (Advanced) then click

Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
Include this location in the search
E:\Wisco_Driver\Wisco USB Modem\win2k_xp 🛛 🖉 🛛 🛛 🛛 🛛 🖉
O Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee the the driver you choose will be the best match for your hardware.
C Back Nexts Cancel

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Wait for Windows to finish searching

Found New Hardware Wizard			
Please wait while the wizard searc	hes		
WISCO USB MODEM			
	$\overline{\mathbf{Q}}$		
	< <u>B</u> ack	<u>N</u> ext >	Cancel

* "Hardware Installation" window show then click Continue Anyway

Har dwa	re Installation
1	The software you are installing for this hardware: WISCO USB MODEM has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway

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Windows loading USB driver to computer PC



Completing the Found New Hardware Wizard" show up then click

Found New Hardware Wiz	ard					
	Completing the Found New Hardware Wizard					
	The wizard has finished installing the software for:					
	WISCO USB MODEM					
	Click Finish to close the wizard.					
	< <u>B</u> ack Finish Cancel					

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For Windows 7 ແລະ Windows 8 operation

- Insert CD to CD/DVD-ROM
- Turn on module power
- Connect USB between RC37 and Computer PC
- Click Start -> Control Panel -> System -> Device Manager or right click on My Computer choose Manage click on Device Manager topic (For Windows 8 click Start -> Setting -> Control Panel -> System -> Device Manager)



Right click Misco USB MODEM and choose Update Driver Software...

Update Driver Software - WISCO USB MODEM	×
How do you want to search for driver software?	
Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.	2
Browse my computer for driver software Locate and install driver software manually.	
	Cancel

Click on "Browse my computer for driver software"

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🕒 📱 Update Driver Software - WISCO USB MODEM	
Browse for driver software on your computer	
Search for driver software in this location: ExDriver WiscoUSBVCOM Browse Include subfolders Include subfolders	Browse For Folder
Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.	Data (E:) Win8x64 (F:) Win7x64 (G:) DVD RW Drive (H:) System Reserved (I:) Network CoolTermWin
Next Cancel	OK Cancel



Next

In case of "Windows Security" show up then click Install this driver software anyway

	×
🕞 🧕 Update Driver Software - WISCO USB MODEM	
Installing driver offware	
Installing driver software	

Windows will load USB driver to computer

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Wait until "Completing the Found New Hardware Wizard" show up then

click Finish



1.2 Install Wisco RC37 GSM Alarm Program

Wisco RC37 Utility can be download from 2 places

- Company website <u>www.wisco.co.th/main/downloads</u> (RC37_GSM_Alarm_Setup_v1_3.exe)
- From CD which come with RC37 Install process:
 - ➢ Insert CD to CD/DVD-ROM
 - > Open RC37_GSM_Alarm_Setup_v1_3_Full.exe



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If computer has not been install Microsoft .NET Framework 3.5, below pop up will show

		🔀 Wisco RC37 GSM Alarm 1.3	\mathbf{X}	
		For the following components:		
		.NET Framework 3.5 SP1		
		Please read the following license agreement. Press the page down key see the rest of the agreement.	to	
		MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS		
		MICROSOFT .NET FRAMEWORK 3.5 FOR MICROSOFT WINDOWS OPERATING SYSTEM		
		View EULA for printing	<u>×</u>	
		Do you accept the terms of the pending License Agreemen	t?	
		If you choose Don't Accept, install will close. To install you must accept this agreement.	:	
		Accept Don't Accept		
w	hen al	bove window occur click on		Accept
	🛃 Wisco	RC37 GSM Alarm 1.3		
	6	Installing .NET Framework 3.5 SP1		
			<u>C</u> a	ncel

Microsoft .NET Framework 3.5

After finish install Microsoft .NET Framework 3.5 window for install Wisco RC37 Utility 1.3 will appear then click process has been done



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Program location

[Windows Drive] > Program Files > Wisco > Wisco GSM Alarm > RC37 GSM Alarm 1.3

Program short cut for Wisco RC37 GSM Alarm 1.3 location

Start > All Programs > Wisco > Wisco RC37 > RC37 GSM Alarm 1.3

1.3 Uninstall Wisco RC37 GSM Alarm

Go to start -> All Programs -> Wisco -> Wisco RC37 -> Uninstall RC37 GSM

Alarm 1.3



✤ Wait until uninstall process has been done

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1.4 Run Wisco RC37 GSM Alarm program

Go to start -> All Programs -> Wisco -> Wisco RC37 -> RC37 GSM Alarm 1.3



Window of Wisco RC37 GSM Alarm

😡 Wisco RC37 GSM Alarm					
<u>File M</u> odule <u>H</u> elp					
🕜 Write 📧 Read 🛛 🎉 Conr	nect				
Monitor Signal	Sending SM Phone numb (668xxxxxxx	S ier () Message			Send
Level Check	Configuration Station N Recipient (668xxxxx	n ame s' phone number xxx)	Filter list by pho	one number	
SIM card Status	▶ 1 2				<u>~</u>
Digital Input/Output	Digital Inp	Off To On	On To Off	Delay Time (sec)	Enable
 Di2 Di6 Di3 Di7 	Input 1 Input 2			1 ~	
🔘 Di 4 🔘 Di 8	Input 3			1 🔽	
Do 1 OFF	Input 4			1 🗸	
Do 2 OFF	Input 5			1 🗸	
	Input 7			1 🗸	
Read	Input 8			1 🔽	

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jile <u>M</u> odule <u>H</u> elp) Write () Read // Disc	connect	→ Menubar → Toolbar	
Monitor Signal Monitor	Sending SMS Phone number (668xxxxxxxx) Message	Sending SMS	Se
1 .111	Configuration	Configuration	
Level 80.0 % Check	Station Name RC37 Recipients' phone number (668xxxxxxx)	Filter list by phone number	
SIM card	▶ 1 6686797xxxx	▲ 1 6686797xxxx	^
Status SIM OK.	2	2	
Check			~
	Digital Inputs		
Digital Input/Output	Input Off To On	Delay On ToOff Time Enab (sec)	le
🐠 Di 2 🐠 Di 6	Input 1 Off To On	On To Off 🛛 🖌 🗹]
🕦 Di 3 🕕 Di 7	Input 2 Off To On	On To Off 1 💌 🗹]
🕦 Di4 💷 Di8	Input 3 Off To On	On To Off 🛛 🖌 🔽]
	Input 4 Off To On	On To Off 1 💌 🔽]
	Input 5	1 🔽 🔽]
Do 2 OFF	Input 6	1 🔽 🔽]
	Input 7	1 🔽 🔽]
Read	Input 8	1 🔽 🔽]

2. Connect between Wisco RC37 Utility and RC37

Connect

💥 Connect



🥖 Disconnect

Click Connect RC37 if connect process succeeds buttons will change to Disconnect

Disconnect

🥖 Disconnect



💥 Connect

Click Click Connect button will change to Connect button will change to

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3. Using Menu and Toolbar 3.1 File



3.2 Module

Mod	lule		
0	Rea	ad Module 🗕	Read Config of RC37
0	Wri	te Module 🔴	Save Config of RC37

3.3 Help



3.4 Toolbar

🤅 🕖 Write 🛛 Read 🛛 🖉 Disconnect 🖉

↔ Write	Save Config of RC37
* Read	Read Config of RC37
Connect/Disconnect	Connect or Disconnect module

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4. Program

4.1 Monitor

Monitor show all status



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4.2 Sending SMS

Sending SMS Phone number (668xxxxxxx)	Message	
		Send

Sending SMS for sending SMS to desire mobile phone for testing

- International Phone number country code must be put in for example : 6681123xxxx
- Message fill in the message
- ♦ Click Send to send SMS

4.3 Configuration

Configuratio	n		
Station N	ame RC37		
Recipien (668xxxx	ts' phone number xxxx)	Filter list by pl	hone number
▶ 1	6686797xxxx	A 🕨 1 6	686797xxxx 🔷
2		2	_
			<u>▼</u>
Digital In	puts		
Input	Off To On	On To Off	Delay Time Enable (sec)
Input 1	Off To On	On To Off	1 🔽 🗹
Input 2	Off To On	On To Off	1 🔽 🗹
Input 3	Off To On	On To Off	1 🗸 🗹
Input 4	Off To On	On To Off	1 🔽 🗹
Input 5			1 🔽 🗹
Input 6			1 🔽 🗹
Input 7			1 🔽 🗹
Input 8			1 🔽 🗹

Configuration for set up

Station Name is name of Module (in English only) which will be send with the message when alarms (15 alphabets)

Recipients' phone number Phone number that would like to receive SMS when alarm message send (Maximum 15 phone numbers)

- Re (66	cipient: 8xxxxx	s phone number xxx)	
Þ	1	6686779xxxx	
	2		
	3		~

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Filter list by phone number they are indicate the phone number that will SMS to RC37 in order to controlling digital output (Max 10 digits). We recommend that user should fill in both local and international phone number for example, local number in Thailand 089689xxxx and international phone number would start with country code which 66 for Thailand therefore phone number would be 6689689xxxx. We recommend user should fill in both 089689xxxx and 6689689xxxx.

ſ	Filter list b	y phone number	
	▶ 1	6686797xxx	^
	2		
	3		~

* Digital Inputs

Digital Inputs					
Input	Off To On	On To Off	Delay Time (sec)	Enable	
Input 1	Off To On	On To Off	1 🗸	v	
Input 2	Off To On	On To Off	1 🗸	v	
Input 3	Off To On	On To Off	1 🗸	~	
Input 4	Off To On	On To Off	1 🗸	~	
Input 5			1 🗸	~	
Input 6			1 🗸	~	
Input 7			1 🗸	v	
Input 8			1 🛩	V	

- Input Input name (Fix)
- Off to On is alarm message when input status change from Off to On (Max 50 alphabets)
- On to Off is alarm message when input status change from On to Off (Max 50 alphabets)
- Delay Time (sec) indicate interval time. Status must be change and stay equal or more than interval time in order to count as alarm (Range 1 – 60 sec.)
- > **Enable** to Enable or disable input



5. To control Digital Output and checking status of Input/Output

RC37 has function of controlling digital output and checking Input/output status via SMS

5.1 Control Output

Controlling digital Output by sending following message:

- ✤ Digital Output --> ON write SMS "DO1=ON" or "DO2=ON"
- ✤ Digital Output --> OFF write SMS "DO1=OFF" or "DO2=OFF"
- To control both Output, must put "," between each command such as "DO1=OFF,DO2=ON" or "DO2=OFF,DO1=ON"

After sending the command SMS RC37 will response

- ✤ "DO1 have controlled by the RC37." When DO1 command is complete
- * "DO1 and DO2 have controlled by the RC37." when DO1 DO2 commands are complete

5.2 Checking Input/Output Status

To check Input/output status write SMS "RC37: QUERY" after sending SMS

to RC37 it will response as:

STATION NAME: DI1: *x* DI2: *x* DI3: *x* DI4: *x* DI5: *x* DI5: *x* DI6: *x* DI7: *x* DI8: *x* DO1: *x* DO2: *x*

when

STATION NAME	Indicate Name of RC37
DI1-DI8	Digital Input
DO1, DO2	Digital Output
X	is current status of each INPUT/OUTPUT

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Appendix

A. How to solve when USB Driver unable to install (Windows 8, 8.1)

First user need to turn off Driver license. It can be done by:

Ð	Sleep
¢	Shut down
Q	Restart
Φ	Calculator
	오 뷰 🤮 👼 🔒 😼

1) Press Start button, and then click the icon for Restart and Shut down. Now, press and hold Shift key when you choose Restart.

Cho	ose an option
\rightarrow	Continue Exit and continue to Windows 8
11	Troubleshoot Refresh or reset your PC, or use advanced tools
ወ	Turn off your PC

2) Then click "Troubleshoot"

©	Troubleshoot		Advanced options				
	Refresh your PC Hyour PC isn't running well, you can refresh it without losing your files		<u> </u>	System Restore Use a restore point recorded on your PC to restore Windows	C:\	Command Prompt Use the Command Prompt for advanced troubleshooting	
	Reset your PC If you want to remove all of your files, you can reset your PC completely		+	System Image Recovery Recover Windows using a specific system image file	\$	Startup Settings Change Windows startup behavior	
8	Advanced options	,	(\$)	Automatic Repair Fix problems that keep Windows from loading			

3) Choose "Advance Option" click "Startup Settings"

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\odot Startup Settings

Restart to change Windows options such as:

- Enable low-resolution via
- Enable debugging modeEnable boot logging
- Enable Safe Mode
- Disable driver signature en
- Disable early-launch anti-malware protection
- Disable automatic restart on system failu

4) Then click

Startup Settings

Press a number to choose from the options below:

Use number keys or functions keys F1-F9

1) Enable debugging

- 2) Enable boot logging
- 3) Enable low-resolution video
- 4) Enable Safe Mode
- 5) Enable Safe Mode with Networking
- 6) Enable Safe Mode with Command Prompt
- 7) Disable driver signature enforcement
- 8) Disable early launch anti-malware protection
- 9) Disable automatic restart after failure

Press F10 for more options Press Enter to return to your operating system 5) After Restart program, "Startup Settings" window will come up click F7 button or click on number 7 at Keyboard for choosing topic 7 "Disable driver signature enforcement"

Restar

6) Then computer will restart again then try to install USB Driver one more time

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