

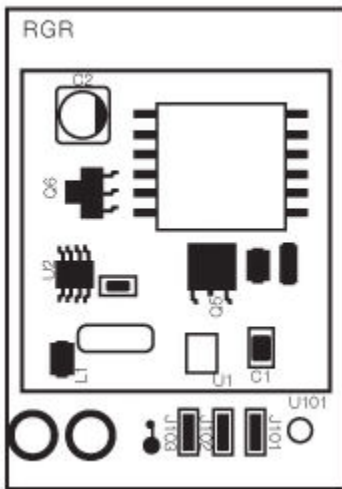
RGR04 Ringer Module

Introduction

The RGR04 Ringer Module is for systems having a Cytech/Comfort Door Station and has two functions:

1. It rings the local phone whenever the Doorphone doorbell button is pressed
2. It rings the local phone whenever a reminder message is played.

It is not an essential piece of equipment as the keypads will also make a sound when the doorbell or reminder message operates. It is however, very useful if you wish to take a cordless phone such as a DECT (Digitally Enhanced Cordless) into the yard or garden and still be alerted when a visitor is at the gate or doorphone.



**Note: The Ringer Modules are not required for dial-out operation.
Only one Ringer Module may be used per system.**

Connections

The RGR04 board is plugged on the Comfort II PCB on the 5 pin connector marked RGR. There is a row of 5 pin header on the underside of the RGR04 marked J104 which mates with the RGR connector on Comfort.

RGR04 Jumper Settings

A (J101)	B (J102)	Freq	
Open	Closed	16.7	
Open	Open	20hz	
Closed	Open	25hz	
Closed	Closed	50hz	Default

AMO (J103)	Amplitude	
Open	Open - 75 VRMS	
Closed	Closed 50 VRMS	Default

Single Line Telephone Connection

Comfort must be connected in series between the incoming telephone line and the house phones using solid core telecom cable and not stranded alarm cable. Use the proper jointing IDC (Krone) tool for making connections rather than a screwdriver. Connect the incoming telephone line to the TEL IN Terminal Block. Connect the telephone wires going to the house phone(s) to the TEL OUT Terminal Block. The system will work with any tone-dialling telephone. For retrofit applications where the panel is sited away from the incoming telephone line, a single cable (6 or 8 core solid) can be used to divert the telephone line through the Comfort panel using only 5-cores. Please read Section 2 in the installation manual for telephone line wiring diagrams and instructions.

A ringer module should be used if the doorbell and reminder messages are required to ring the telephone. Telephones, facsimile machines and other telecommunications equipment may be connected to the Telephone OUT socket.

Troubleshooter

Doorphone will not ring the phone

A lack of 'ring' can also result if there is no Master socket on the Line OUT of Comfort (UK Only) or if the Ringer Module is not connected to the main CPU PCB. Double check your wiring in accordance with the installation manual. The master socket pin 3 (c) generates the ring and must be routed around the phone extensions to the same terminal marked 3 or (c). IDC connections can often be a cause of intermittent operation, use the correct 'Krone' tool when terminating these. If you insert more than 2 wires in the same IDC slot, bare the ends of each wire before inserting them to ensure a proper connection. The main aim should be to isolate the problem, here are other checks that can be made:

1. Check that the ringer leads are connected to the correct points on the main CPU PCB.
2. When the Doorbell is pressed, check you can hear the relays click within the CPU, they drive the ringer module, if they are not clicking then the fault is not with the ringer module. If so, try downloading a default template into Comfort just in case some locations affecting the telecoms operation have been inadvertently set incorrectly.

3. If the relays do click, but the phone still will not ring, check the phone ringer is not switched off locally on the handset (it can happen).
4. Unplug all the other phones, modems, satellite etc, on the phone line except one basic type phone and try again. You may have added too many telecoms devices or one may have a low resistance which kills the ringer current. If after doing this it rings, add them back one by one until you identify the culprit.
5. (UK Only) Check that there is no more than 1 master socket on Comfort's Tel Out. A master socket is identified by a large cylindrical capacitor inside the socket on the PCB. If that's the type of socket you already happen to have installed, then just cut the capacitor out of the extra Master sockets after the main Master socket after the Comfort TEL OUT. Don't worry about the resistor in this socket, its 470k ohm so you won't notice any difference with or without it, but leave the surge arrestor in place. The more protection you have on a phone line the better.
6. (UK Only) Disconnect the house phones at the Tel. In terminal of Comfort. Connect a loose lead with a single master socket on the end connected to the Comfort Tel Out, connect a phone, and try the doorbell again. This eliminates all the house phone wiring. If it works then investigate the wiring resistance using a multi-meter.
7. Check the header connection on the ringer PCB track next the white plug-in socket is not fractured. Subjecting the ringer module to a shock such as from dropping it or poor protection during transit can cause cracking of the solder and track around the base of the header. Look at the back of the PCB in good lighting conditions and wriggle the header to see if the solder has broken.
8. Try replacing the Ringer Module and adjust the ring frequency till ringing starts
9. If still it doesn't then call your supplier for some assistance, you may have a unique problem.

Document History

1.0.0 - Initial Release 1 January 2007

1.0.1 - 27 March 2009 Corrected connector for RGR04 from 6 to 5 pins on page 1