

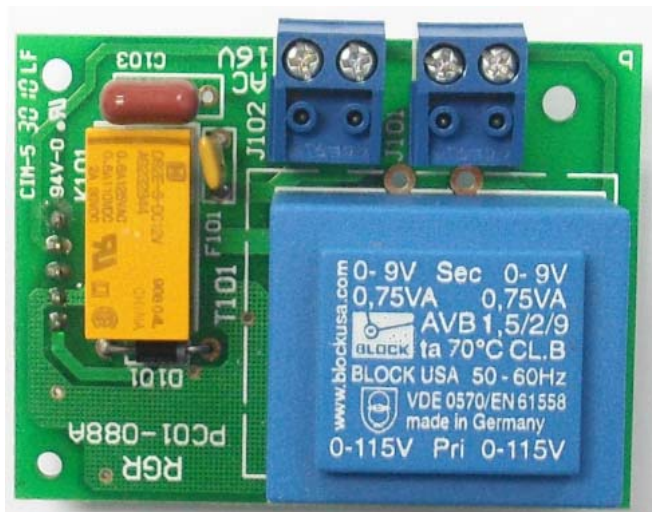
RGR05 Ringer Module

The RGR05 Ringer Module (for Comfort 2) rings the local phones in the premises as a result of the following events:

- The Comfort Doorbell button has been pressed in Security Off and Night Modes,
- A Reminder message has been activated.

The RGR05 is not essential for Comfort as the keypads will also chime when the doorbell or reminder message operates. However it can be very useful if you wish to take a cordless phone into the garden and still be alerted when a visitor is at the gate or door.

The RGR05 is an improved version of RGR04 (discontinued.)



- RGR05 can be used for Comfort II only, not Comfort I.
- RGR05 is not required for dial-out operation.
- Only one RGR05 is needed for a Comfort system
- RGR05 will not work on mechanical phones with bell

Specifications

- Input Supply (J101, J102): 14 - 16 VAC 50 Hz from Comfort Transformer Secondary
- Ringing Voltage to Comfort TEL OUT (NO LOAD): 90 VAC/50Hz

Safety Standard

CB Certificate SG-2209-M2 tested conformity with IEC60950-1 (Ed 1)

What is Included

- RGR05 Module with Metal Stand-off, screw and nut

Connections

The RGR05 is designed to sit above the Comfort PCB on a metal stand-off. Remove the Comfort PCB from the enclosure, and screw the metal stand-off to the PCB using the nut in the position shown in the photo below.

The RGR05 board is plugged (by J104 header on the underside of RGR05 PCB) onto the Comfort II PCB on the 5 pin connector marked RGR. Use the screw to firmly fix the RGR05 in place.

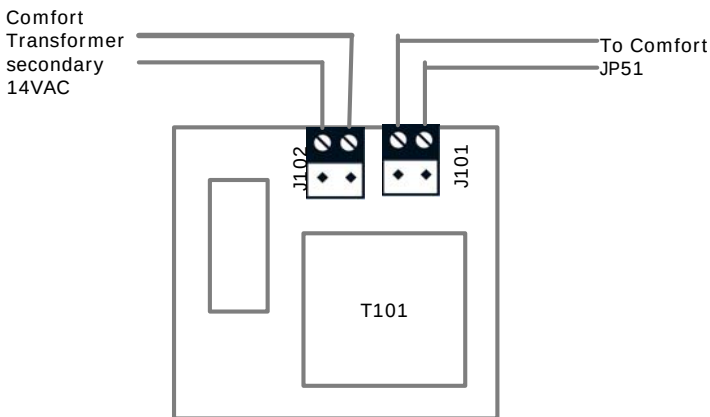


Figure 1 - RGR05 Power Supply connections

The RGR05 requires a 14VAC voltage from the Comfort transformer secondary to generate a 90VAC voltage required to ring the house telephones. Terminal Blocks J101 and J102 are provided for connection to Comfort 14VAC JP51 terminal block. J101 and J102 are parallel connections, so that one of them can be used to connect to Comfort JP51. Remove the terminal block from Comfort ACIN and plug this into J101 (or J102). Connect another pair of wires (AWG16) from J102/J101 to Comfort AC IN terminals.

The photo below shows the wiring between the Comfort Transformer, RGR05 and the Comfort PCB. In the photo, the wires connected to J101 are from the Transformer secondary

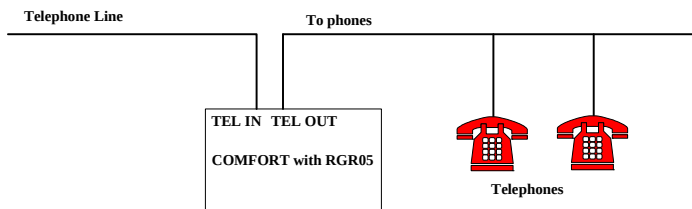


Figure 2 - Telephone Connections for Comfort

Comfort TEL IN must be connected to the incoming telephone line and TEL OUT to 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 modern electronic telephone but not with old style telephones with mechanical ringers. Please read the Comfort II 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

Troubleshooting - Phones do not Ring

A lack of ringing sound can 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 correctly. Check your wiring in

accordance with the instructions above and make sure that the RGR05 5 pin header is inserted correctly into J104 socket on Comfort. 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.

- When the Doorbell is pressed, check if you can hear the relays click in Comfort. If they are not clicking then the fault is not with the ringer module. Write a default template into Comfort just in case some locations affecting the telecoms operation have been inadvertently set incorrectly.
- If the relays do click, but the phone still will not ring, check if the phone ringer is not switched off locally on the handset.
- 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 for the RGR05 to drive at the same time
- (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 is the type of socket you already have installed, then remove the capacitor out of the extra Master sockets after the main Master socket after the Comfort TEL OUT. Do not worry about the 470 K ohm resistor which is too large to make a difference, but leave the surge arrestor in place. The more protection you have on a phone line the better.
- (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 multimeter.

Important Note

The printed manual may not always be the most current version. Please check and download the latest version from <http://www.cytech.biz/manuals.html>

Document History

- 1.0.1 - Initial Release 20 October 2010
- 1.0.2 - Added CB Certification 22 November 2010
- 1.0.3 - 26 November 2012 190 x 110 mm leaflet format