CALL '2' OPEN USING YOUR MOBILE PHONE

Features

Easy to Configure using SMS commands.

User Password Controlled

Relay Output rated 1.2KW

'White List' upto 100 Tel No's

Signal Strength Indication

Internal Antenna

Waterproof Enclosure IP68 (Pressure Washer Proof)

Access Control

Gates / Barriers / Doors

Emergency Alarms

Covert Systems

Remote Control

Easy Operation

User Calls C20

C20 Rejects call

If valid C20 operates Output

Ordering Information

PART No	Description
C20	Call2Open Controller IP68
SIM-02	Contract Simcard SMS Only

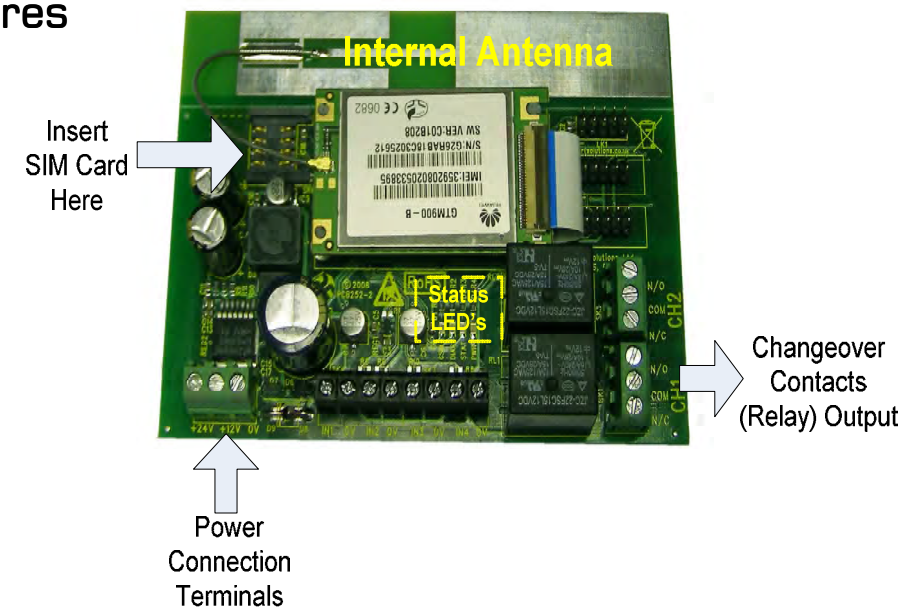
Introduction

Call '2' open (C20) is a self contained access Control Solution which provides relay changover contact output which can be used to operate gates / barriers etc.
When C20 receives a telephone call, if 'White Mode' is enabled It checks the caller's telephone number with its own 'White List' and if valid, C20 operates its relay output momentarily.
Because C20 rejects the call there are no call charges incurred. (Using current call charging structures).
The user can set upto 100 numbers on the white list, or set the C20 'Open' to any caller

Typical Application Connection:

Normally the C20 output relay is wired across the switch which operates the Gate.
In order to connect the C20 across a standard push switch the relay COM and NO contacts are wired in parallel to the users gate wall push switch.

Hardware Features



SIM card

The unit will accept SIM cards of most types subject to the following restrictions.
The SIM card should be inserted into C20 before applying power
Only 3 Volt SIM cards should be used.
The message memory of the SIM card should be clear before it is fitted to the C20 unit.
SIM cards that have been protected by means of a PIN (in a mobile phone) will not operate in the unit.
Some types of pay-as-you-go SIM cards may require regular call activity (once every 3 - 6 months) to remain registered.

RF Solutions recommends O2 and Videophone SIM card and has carried out extensive testing using the SIM cards we have for these two networks.
Problems have been identified with Orange SIM cards with this product.
No guarantee can be given for the operation of this product with any network except those that have been tested by RF Solutions.

Onboard LED's Indication / Signal Strength

There are four LEDs on the circuit board. The Green LED indicates power is applied
The three Red LEDs indicate the status of C20 as below

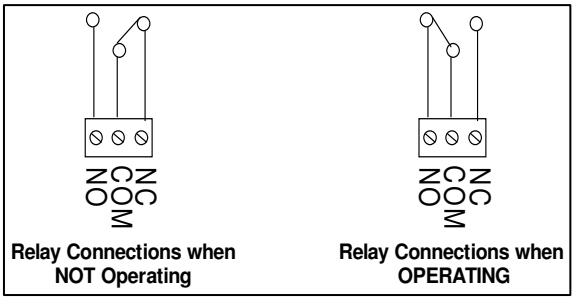
During Initialisation After Power UP	
RED LED Action	**Description**
LED's illuminate alternately	Power-up initialisation (can take many seconds)
All LED's flash together	No network found

Normal Operation	
RED LED Action	**Description**
No LEDs	No signal
One LED on Steady	Low signal strength
Two LEDs on Steady	Medium signal strength
Three LEDs on Steady	High signal strength

When Transmitting or Receiving a TEXT	
RED LED Action	**Description**
One LED Flashing	SMS being Received
TWO LED's Flashing	SMS being Transmitted

Changeover Contact Outputs

Two relay outputs are provided on C20 and C20-DIN, which provide a 'switch' output as below.



Relay Connections when NOT Operating | **Relay Connections when OPERATING**

Power Connections

The C20 unit can be powered from 12 or 24Vdc, a mains power supply is also available. Power is connected via the Power Screw Terminal.

Extending the Antenna

For low signal areas the internal antenna may be replaced with an external antenna. We offer the following options.

Please Note: Fitting the bulkhead connector in the enclosure will mean that the enclosure is no longer IP68! Additional water sealing will be required if the unit is exposed.

CBA-UFLSMA-1

This cable connects onto the GSM Engine and provides a bulkhead mounting SMA connector which may be fitted to the enclosure, The external antenna below connect directly.

Optional External Mount Gain Antenna

ANT-GSM5WM

Wall Mount Whip Antenna
Gain +5dB
Height ~250mm
3m Connecting Lead

OUTSIDE-TSMA

Wall Mount Antenna
Gain +3dB
Dimensions 130 x 45 x 27mm
3m Connecting Lead

GSM20-ANT

Magnetic mount type Whip Antenna
Gain +3db
Height ~ 236 mm (including magnetic base)
Cable length 2.5m