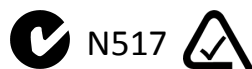




# GSMBU-PRO GSM

## GSM Back-Up Unit



## QUICK INSTALLATION GUIDE

### Standard System Features:

- ❑ Backup phone line function: in case of the failure of your PSTN line, the system simulates a virtual PSTN line over the GSM Mobile Network.
- ❑ Utilises Highest Quality Sony / Ericsson GSM Modem.
- ❑ Default factory setting: If the connected PSTN landline is available, all the calls will be made through the PSTN line. If the PSTN line ever fails, all calls will then be made via the GSM network.
- ❑ Both pulse and DTMF dialing are supported.
- ❑ The unit is capable of sending (independently to your panel) its own periodic phone test, phone line failure or low battery message to 2 different receiver station phone numbers, via Contact ID protocol using the GSM network. Contact RhinoCo Technical Support if you require this function.
- ❑ The unit draws less than 250mA, so can be powered directly from your alarm panels 12VDC power supply in most cases.
- ❑ Easy to comprehend LED Status indicator for both GSM & PSTN Landline.
- ❑ GSM Antenna supplied includes magnetic base for simple mounting to alarm control panel boxes.

# How to Use The RhinoCo GSMBU-PRO With An Alarm Control Panel

## Description

This unit has been pre-programmed at the factory. Simply insert a GSM SIM Card from the network provider of your choice. Then connect the alarm panel's dialler and your phone line to the phone sockets on the GSMBU-PRO Module labelled **Control Panel** and **PSTN / Landline** respectively. You may then connect power.

Please follow these simple steps:

1. Insert your SIM card (with the edge that is cut facing outwards) into the sim cardholder.

***IMPORTANT: Do not attempt to remove or insert the sim card with power turned on.***

***NOTE: Avoid touching the PCB when the case is opened as this can cause damage to the electronic components***

2. Hardwire the +12V and the GND terminals to either the control panel's +12V DC supply, or to a separate 12V plug pack.

***NOTE: If using a 12V source from the control panel, be sure not to exceed the maximum current rating of the output with the GSM backup connected. Please allow a 250mA max current draw in your calculation for the GSM Backup.***

3. Hardwire the phone line output from your alarm control panel to the terminal socket labelled "Control Panel" on the GSMBU-PRO.
4. Hardwire the "PSTN Landline" on the GSMBU-PRO to your phone line.
5. Affix the GSM Antenna to the connector of the GSM modem. Next, place the antenna in a suitable location away from interference.
6. The GSM backup is now ready for operation.

## Optional Wiring – Terminal Block

**04 Terminal** - Negative out on GSM failure: *This output will activate when no GSM coverage is available, GSM jamming or a failure occurs with the sim card.*

**Z1 Terminal** - Negative trigger: *This input is pre-programmed as normally open with no EOL. It can be used to send a 24hr alarm message independently of the control panel to the monitoring station. Simply enter your receiver number into location 400 and your account number into location 426. The input is now ready for activation.*

*Refer to the following pages for further details on how to program the receiver and account number.*

## **PROGRAMMING GSMBU-PRO FROM A DTMF PHONE**

### **Enter Programming:**

In order to enter programming mode, first disconnect the phone line from the [PSTN/Landline] terminal and connect a DTMF phone to the terminal labeled [Control Panel]. Wait until there is a dial tone, or the D9 LED remains constantly lit (green).

+  +

When you pick up the handset, you will hear the dial tone, press the [\*] key and a beep will be heard. This will indicate control mode has been entered and is waiting for a valid installer code.

The default installer code is: [0011]

After entering a valid code, you'll hear a (di, di, dee) indicating programming mode has been entered.

### **Quit Programming:**

Press the following keys on the DTMF phone.

+

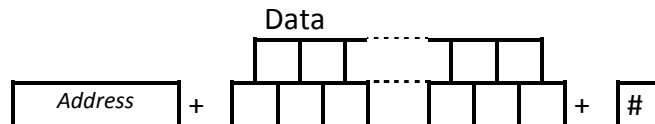
After a few seconds the relay will activate indicating programming mode has been exited, at this point the phone can be hung up.

The GSMBU-PRO will also exit programming after 1 minute without pressing a key, once out of programming the dial tone will be heard.

### **Programming data in the addresses:**

Programming format

1. Enter the installer code
2. Enter the address to program
2. Enter the data to program
3. Confirm by pressing the # key



### **Entering the Address.**

Three digits of the address must be pressed, each digit you type, a single beep will be heard acknowledging the data, once you have entered the third digit you'll hear a melody indicating a valid address has been entered. If the address entered is wrong, an error tone sequence (di, der) will be heard. You will then have to enter the address again. Pressing the [#] key will cancel the programming of the address.

### **Entering the data:**

Once an address has been entered, enter the data (receiver number or account number) and press the [#] key to confirm. Valid data will be indicated by (di, di, dee) invalid data will be indicated by (di, der).

### **Recovering factory codes**

In case you don't remember the installer's code, follow the below steps to restore the factory code.

1. Pick up the handset on the DTMF phone and wait for the dial tone.
2. Press the '\*' key, a single will beep be heard indicating you are in control mode.
3. Press and hold the '9' key for 2 seconds. The valid data sequence (di, di, dee) will be heard.

Note: If you cannot hear a (di, di, dee), press the # key and repeat steps 2 & 3.

# PROGRAMMING TABLE

## CENTRAL STATION RECIEVER NUMBERS

	Receiver Numbers	
Phone 1	400	None
Phone 2	401	None

## ACCOUNT CODE

Account codes must be programmed in order to enable Receiver Station reporting.

Account Code	426				
	Default	F	F	F	F

## INSTALLER CODE

The Installer code will allow access to programming, it's recommended this code be changed from the factory default.

Installer Code	000				
	Default	0	0	1	1

## LED OPERATION

The LEDs of the GSMBU-PRO indicate:

LED	OFF	Flashing	ON	Blinking
D9	PSTN Failure	PSTN OK	Active line	Ring
D8	GSM not available	Online	Active GSM	SMS / GPRS
D14	No power Supply	Disarmed, battery Ok	Armed, Battery Ok	Low battery

\* If there is single flash of D8, it means that the GSM is online. 2 flashes indicate that there is also GPRS signal.

\* The cadence of the D8 flash will indicate the RF signal strength as:

- Flash every 8 sec : RF signal 1 to 39%
- Flash every 4 sec : RF signal 40 to 79%
- Flash every 2 sec : RF signal 80 to 100%

