

# **2G GPRS/GSM Alarm communicator**

Model: x31-3b

**User manual** 

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We would like to thank you all for purchasing this New World Security product. We trust you will see the unique benefits of using this professionally designed and engineered product.

This Plug and play GPRS communicator x31-3b has been developed, through a growing demand to transmit alarm panels Ademco Contact ID protocols to the monitoring stations (CMS) IP receivers by GPRS/GSM network in the event of PSTN line loss or failure.

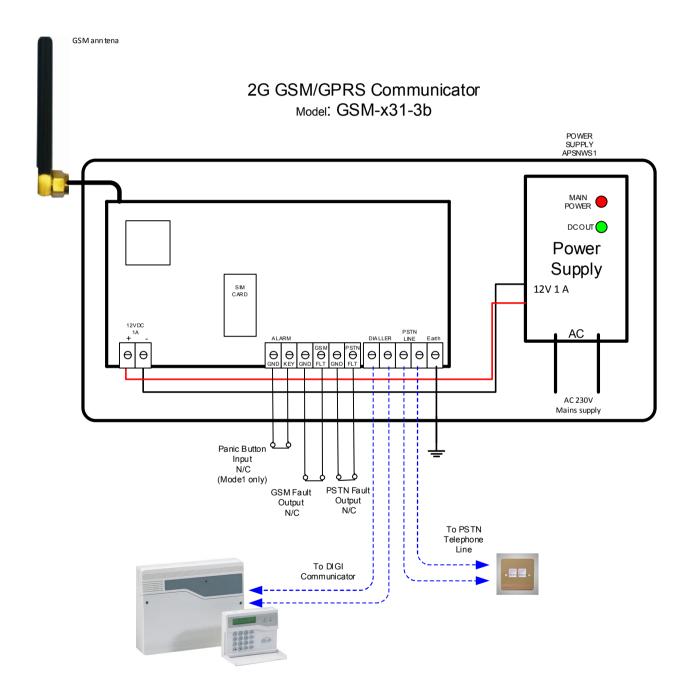
**GSM/GPRS x31-3b** communicator is compatible with control panels from any manufacturer which has PSTN telephone communicator and work with Ademco Contact ID protocol.

### **Safety Instructions:**

Please read and follow these safety guidelines in order to maintain safety of operators and people around:

- GPRS communicator contains a radio transceiver operating in:

  Quad-Band GSM/GPRS 850/900/1800/1900MHz.
- Don't use the system where it can interfere with other devices and cause any potential danger.
- Don't use the system with medical devices if this is required in the manual of the medical device.
- Don't use the system in hazardous environment.
- Don't expose the system to high humidity, chemical environment or mechanical impacts.
- Don't attempt to personally repair the system.
- Any system repairs must be done only by qualified, personnel. Mains power must be disconnected before any installation or tuning work starts. The system installation or maintenance must not be done during stormy conditions.



# **Technical Specifications**

Davier Cumply	12V 1A
Power Supply	12V 1A
Current Used in Standby Mode	44mA
Current Used in transmitting mode	120MA
GSM Modem Frequency	Quad-Band GSM/GPRS/ 850/900/1800/1900MHz
Communications	Voice Calls, SMS, GPRS
Supported Protocols	Ademco Contact ID, SIA IP, SIA IP encrypted, Enigma2
Administrator number	1
ALARM (Panic Button) Input type	NC (normally closed)
TAMPER Input type	NC (normally closed)
GSM Fault (FLT) Output type	NC (normally closed)
Allowable Input Values	0-12V 0.1-0.3mA
Generated Phone Line Voltage(Tone)	0.7VDC
Dial Tone Frequency	425Hz
Phone Line Active resistance	150 Ω
Phone line Reactive resistance	600 Ω
Operating temperature range	-20+55o C
GPRS communicator PSB dimensions	140 x 57 x 20mm
PCB weight	120g

# **LED Illumination**

GSM (Blue-flashing)	GSM Network connection
100%,75%,50%,25% (Green-static)	GSM signal power level
In Use (Orange- flashing)	Data transmitting indication
READY (Red-static/flashing)	System ready/ system not ready
POWER (Red-static)	Power +12V
DTMF (Red- flashing)	DTMF tone indication
LINE (Green-static)	ON-PSTN connected, OFF- PSTN disconnected

#### **POWER SUPPLY**

Before connecting x31-3b communicator to alarm system's 12VDC power supply, please, make sure that the output is able to maintain peak current consumption of up to 1A max. Otherwise, please, use an external power supply.

#### **IMPORTANT**

When mounting GSM antenna, choice a location which is away from human interaction and away from the alarm panel. Route the GSM antenna cable from the GPRS communicator so that it is separate from the power supply cables. Always ensure the power is off on GPRS communicator before inserting or removing the SIM card.

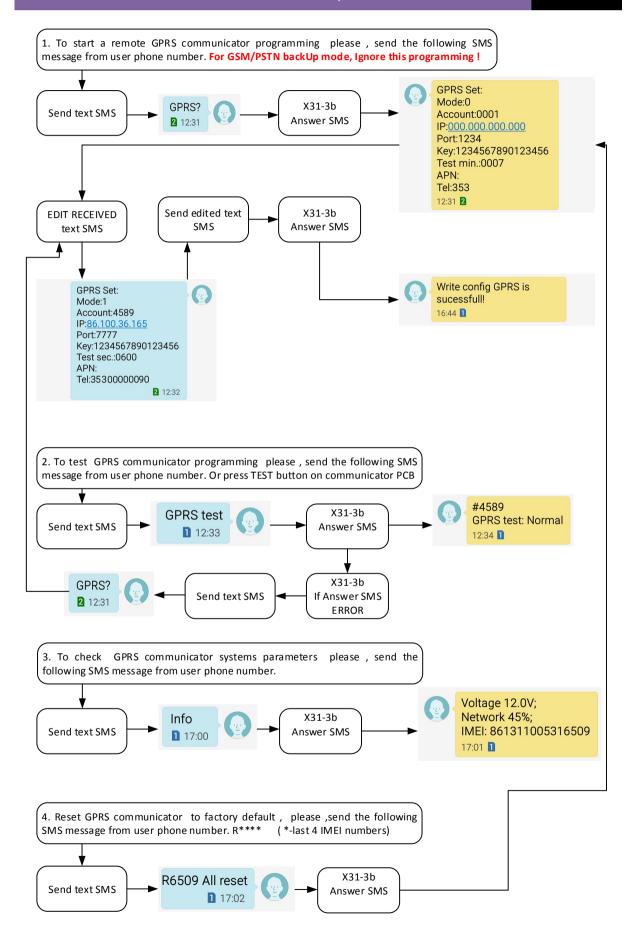
New SIM cards will need registering before they can be used. Full details of how this is done, can be found in the SIM card pack. It will normally require that the SIM card is inserted into a mobile phone, a number dialed and instruction followed. While the SIM is in the mobile phone it would be a good time to disable any PIN codes, call diverts, ring back, and disable features such as voicemail and text alerts. Details of how to do this can be found on the SIM card provider's web site or by calling their customer services. For GPRS communicator we recommend use 2G Network SIM cards.

#### X31-3b WIRING

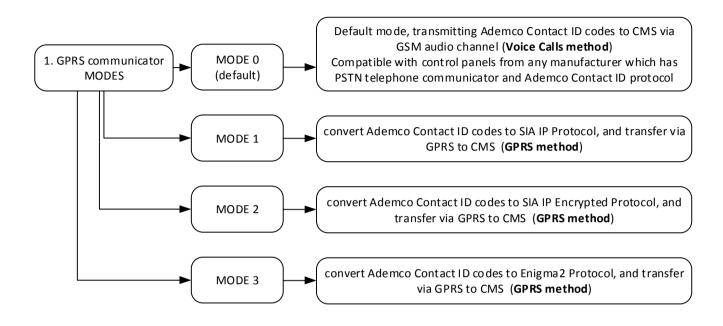
When the metal enclosure is used, it is necessary to ground the enclosure using yellow/green color cable. For the connection use 0.50 mm2 1 thread cable. For the device connection to input/output connectors use 0.50 mm2 1 thread cable of up to 100 meters length.

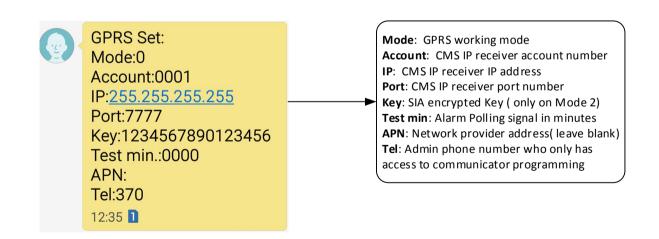
Recommended to install the GSM antenna away from the alarm system to ensure better quality of the audio signal. It is not recommend to install the antenna inside the metal enclosure.

- 1. Connect 12VDC 1A power supply
- 2. Connect Terminals (Alarm), (GSM FLT), (PSTN FLT), (DIALLER) to Alarm panel
- 3. Connect GSM antenna
- 4. Insert SIM card
- 5. Power ON power supply
- For GSM/PSTN back-Up mode, No any programming necessary.For GPRS mode, check next step- GPRS programming.



GPRS parameters settings
Information





# **POSSIBLE FAULTS**

GSM LED is off or not flashing	Not connected power supply
	Circuit not properly connected
	Blown fuse
	No GSM network signal
READY LED flashing several times per second	Not programmed GPRS mode
	No connection to CMS IP receiver
Sent Text SMS not responding	Check SMS text letters , Caps, Spaces
	No credits on SIM card number
LINE LED is Off	Not connected PSTN Line

# **TECH. SUPPORT**

For Tech. Support please send enquiry to gsmalarms@eircom.net

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