

LR30 GSM Module [used with the LR30 & LR40] Installation & Use Manual

ENGLISH

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1 Download the App



The GSM functionality is programmed via a simple and free to use App. The App can be downloaded using the QR code or following the link below:

<https://www.tritoncontrols.co.uk/alarms-and-controls/triton-app.html>

Or, search the Google app store for Triton Alarm.



2 GSM Programming

2.1 General Interface



[Only available on the LR30 range] The mute button is a momentary tactile switch. When pressed



The test button is a momentary switch that will activate the alarm once pressed.

For the GSM units, holding the test button for 3 seconds or more will send a test text message. The message details all the programmed data to each phone number stored in the unit.

An SMS text is only sent if the alarm is not active.

2.2 GSM Interface

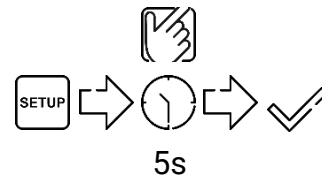


The GSM signal strength is indicated by the bar graph shown. If there is no signal the unit will indicate it is searching for a signal by sequentially illuminating each independent signal LED.



Press and hold the setup button for 5 seconds to enter GSM program mode.

On power up, the GSM signal strength will not display immediately. It may take 10-15s before the signal strength is shown. The signal strength is automatically updated every 10s.



If there is no signal, the GSM interface LEDs will cycle through as shown.



NOTE: For the LR30-BASIC. The signal strength bar graph is not located externally in the unit. There is an internal bar graph located on the GSM module.

NOTE: For the LR30-BASIC. The setup button is not located externally in the unit. There is a setup button located on the GSM module.



2.3 Supported Networks

The GSM module utilizes the 2G GSM network. Therefore, ensure that the network provider you choose supports 2G.

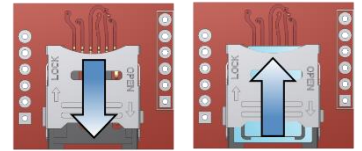
WARNING: Do NOT use PAYG SIM cards [Pay As You Go]. They deactivate if not used over a set period determined by the provider.

2.4 Fitting the SIM Card

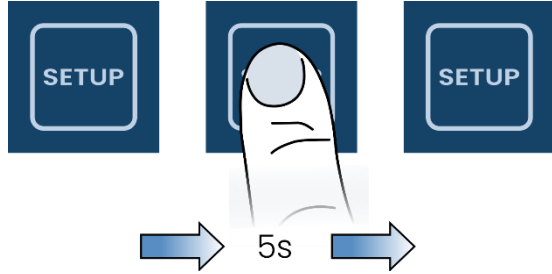
WARNING: Isolate/disconnect the incoming power before fitting the SIM card.

  If the SIM card is not fitted or there is a fault with the SIM card, the signal strength will flash as follows.

Unlock the SIM card holder and place the sim card with the contacts facing down into the holder. Lock the holder by sliding the metal case upwards.



2.5 Entering GSM Program Mode

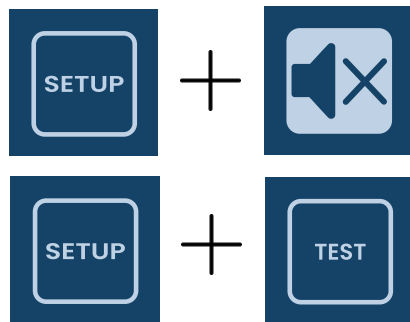


To enter GSM programming mode, press and hold the SETUP button for 5s.

Once the product is in programming mode, the GSM signal strength LEDs will flash every 500ms.

2.6 Disconnecting


There are two methods of disconnecting the App from the unit. Disconnection automatically puts the unit back into normal operation mode with all new saved settings activated. If the unit is left in programming mode it will automatically disconnect after 1 hour.

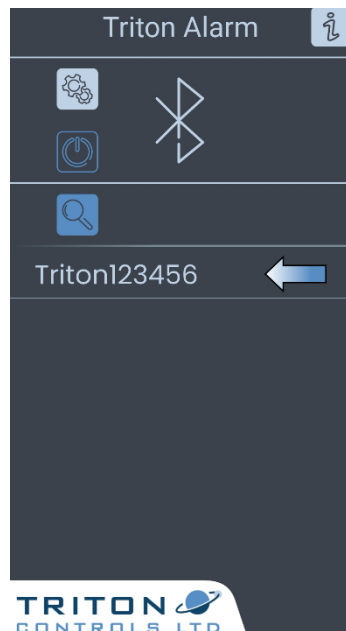
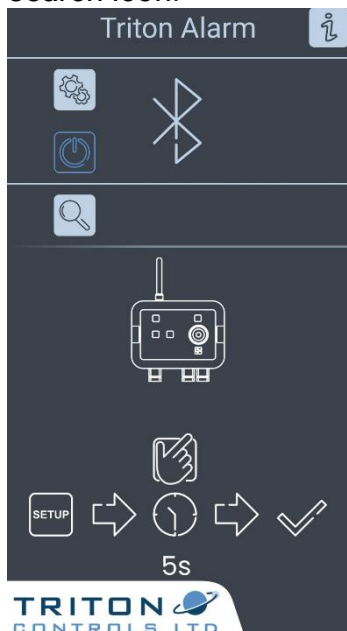



- Press and hold the setup button while pressing the mute button
- Press and hold the setup button
- Press the test button


2.7 Connecting to the App


NOTE: On the first use of the app, the user will be prompted to allow communications to the device, PRESS ALLOW on all requests.

 Once the unit is in GSM programming mode, it will be visible on the app by pressing the search icon.



 The device the app is installed on may require the settings altered to allow communications to and from the unit. Access the settings of the device via the settings icon.

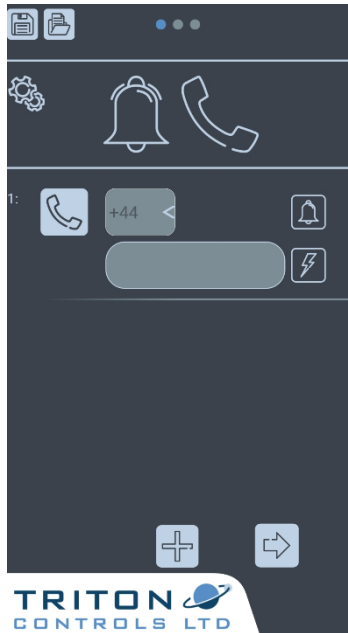
 Communications are switched OFF when the icon is not highlighted blue.

 Communications are switched ON. Ensure the icon is highlighted for the app to program the unit.

When the unit is discovered by the app, it will be listed below as Triton[serial number]. For self-upgraded units, the serial number is taken from the GSM module.

Multiple units can be displayed if they are in programming mode and are within the local vicinity.

2.8 Programming the Alarm Phone Numbers



Once connected to a unit, data can be saved or loaded for future use.



A phone number may be loaded from the contacts of the device.



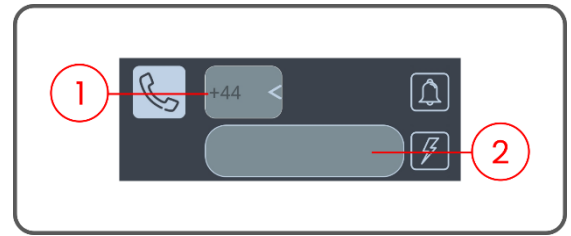
Add phone numbers by selecting the plus icon. There are a maximum of 5 alarm phone numbers.



Remove the phone number by selecting the minus icon.



Next page button.



Enter a phone number manually by:

1

Select the country code;

2

Enter the phone number in the text box;

NOTE: Existing data will be loaded from the device to the app.

For each phone number there is an option for that number as an alarm and/or power loss alert:



Alarm INACTIVE



Power loss alarm INACTIVE



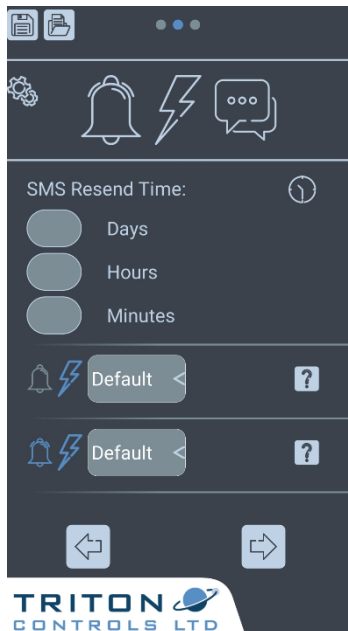
Alarm ACTIVE



Power loss alarm ACTIVE

NOTE: A power loss alarm is not available on the non-battery units.

2.9 Alert Message Settings

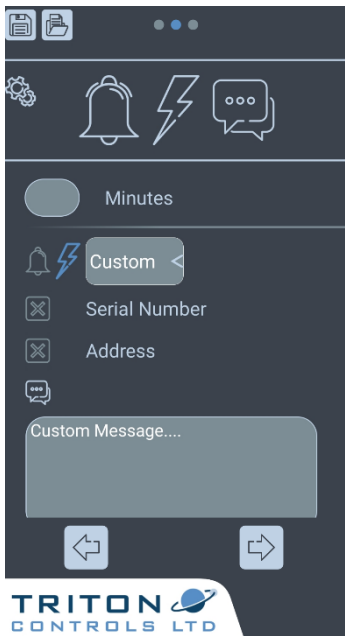


Return to the previous page button.

- When an alarm is activated for a long period, a repeat message is sent to remind the user/operator of the alarm state. The period between each repeat is set on this page.
- Each type of alert message has its default or custom message available.



The default messages can be displayed by pressing the question mark icon.



- Selecting a custom message will bring up a custom message text box. Enter the desired message into the text box. There is a maximum size of 120 characters.
- Custom messages can automatically include the unit serial number and/or a defined custom address of the unit. To enable/disable these features select the buttons below:



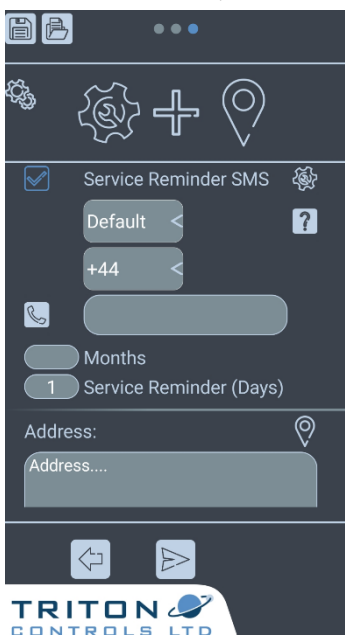
Disabled



Enabled

NOTE: Activating the address will enable a custom address text box on the next page of the app.

2.10 Service, Address & Send



- A service reminder, reminding the user/operator that service is due, can be set with a dedicated phone number.
- Like the alarm alerts, the service reminder has the option for a default or custom message.
- Also on this screen is the option to fill in the unit address. the address text box only appears if it is enabled in the App.



Selecting the send icon will automatically send all the data entered and program the unit. The App will prompt the completion of the data transfer. The device is now programmed. The App will also prompt the user to save the current data for future use.

NOTE: Once programmed, it is advised to test the product using the test button. The test button will text each phone number stored in the unit with the full settings programmed within it.

3 Mechanical Fixing of the Product

For GSM upgrades, fixing instructions are provided in sections 3.1 & 3.2. For pre-installed GSM, units there is no need to follow sections 3.1 & 3.2.

3.1 LR30 Range



Drill a 6.5mm hole where indicated.

Be careful not to damage any internal circuitry.

NOTE: The antenna placement is located at the bottom of the unit to protect the internal circuitry against water ingress.



Fit the GSM module in the location shown

NOTE: Ensure the pins of the GSM module are correctly located in the socket.



Secure the module in place using the screw provided



Affix the cable tie bases as shown.

Route the antenna cable and fix it in place using the cable ties provided.



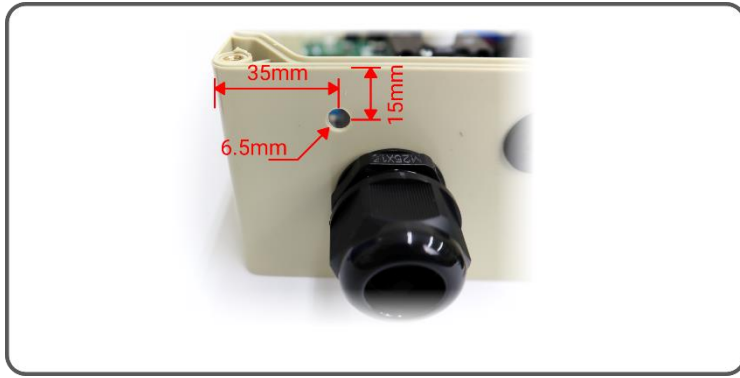
Fit the antenna



NOTE: The antenna cable placement is designed to stay clear of potential high voltages from incoming mains and external circuitry on relay outputs.

NOTE: The LR30-BASIC & BATTERY may look different to the images above. However, the antenna installation is the same.

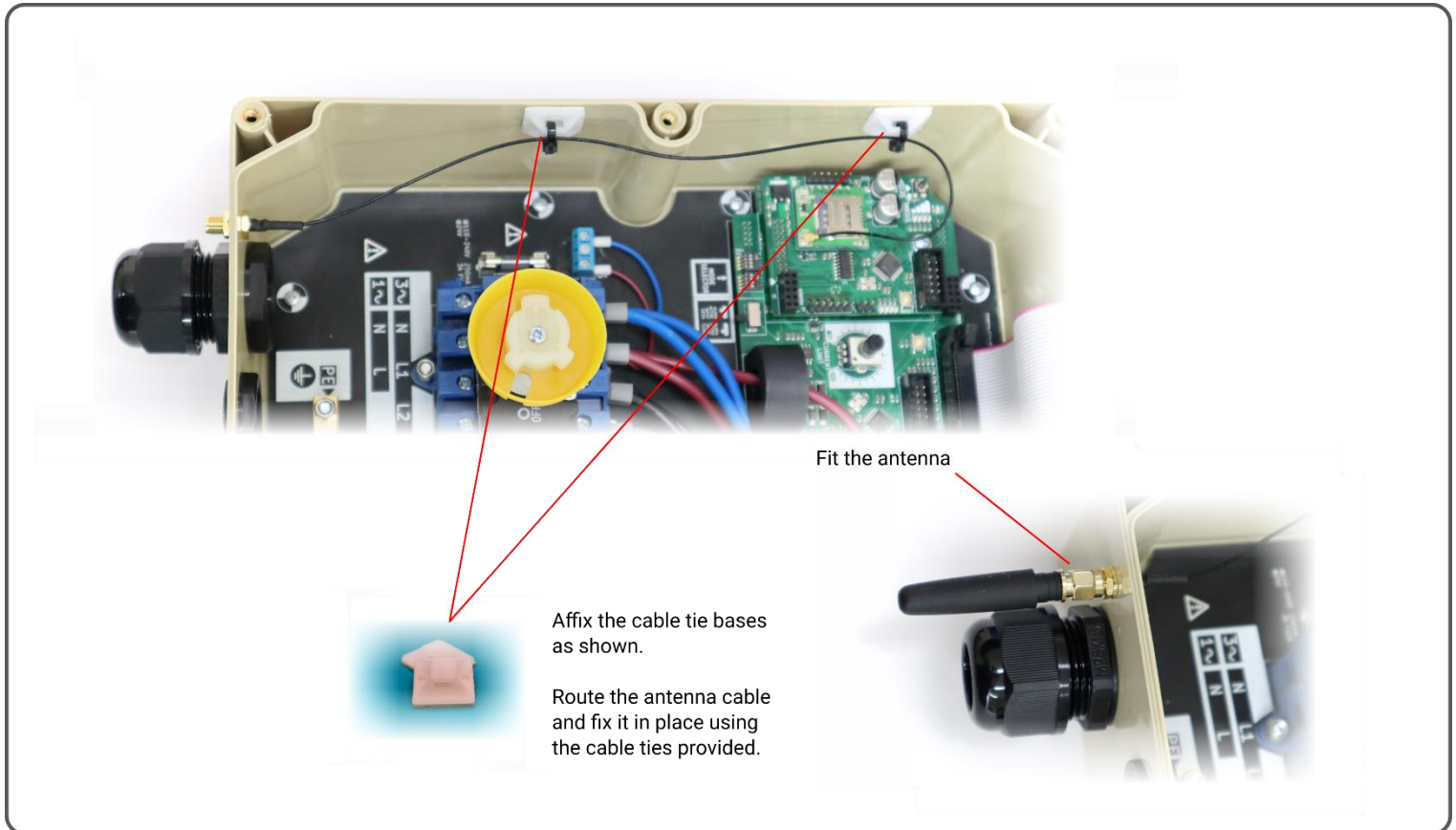
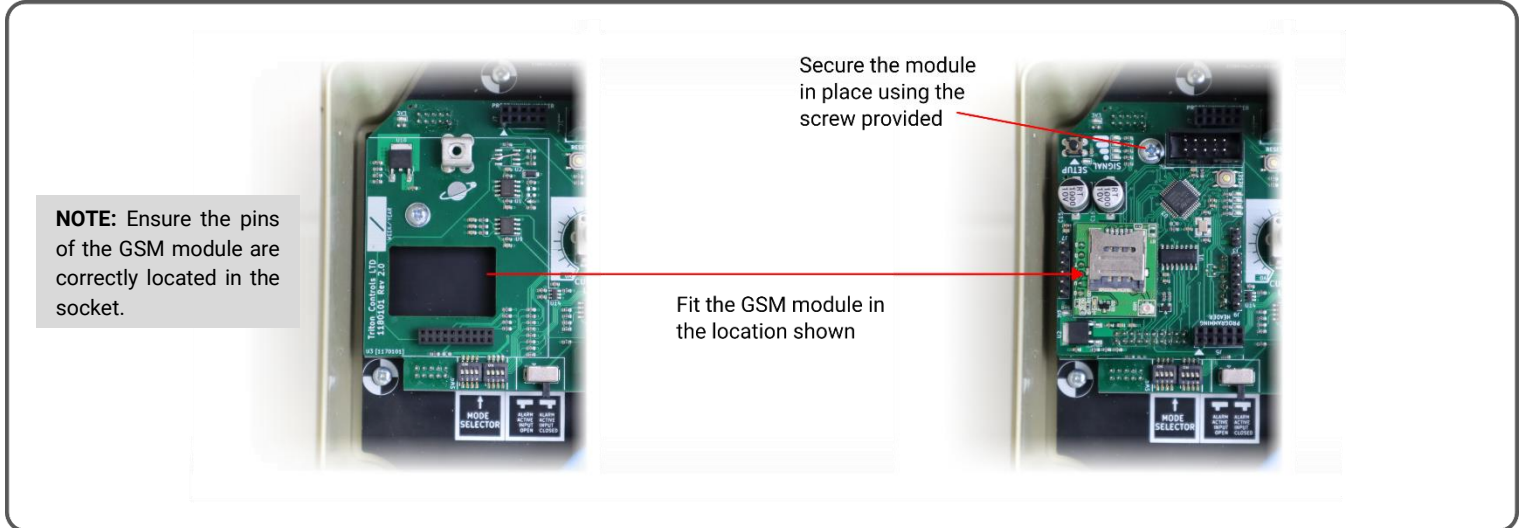
3.2 LR40



Drill a 6.5mm hole where indicated.

Be careful not to damage any internal circuitry.

NOTE: The antenna placement is located at the bottom of the unit to protect the internal circuitry against water ingress.



NOTE: The antenna cable placement is designed to stay clear of potential high voltages from incoming mains and external circuitry on relay outputs.

4 Common Trouble Shooting

1. The device is not shown on the app.

- Ensure the unit is in setup mode and the GSM signal LEDs are flashing.
- Ensure communications permissions are allowed on the mobile phone.

2. The contacts stored on the phone are not displayed.

- Check the phone permissions to allow the app to access the contacts.

3. The unit is not sending a text SMS message.

- Check the GSM signal strength and make sure that the device has a signal to send text messages. The signal indicator should have a solid light showing 1 / 1&2 / 1,2&3 OR 1,2,3&4.
- If the signal indicators are flashing sequentially then there is no GSM signal in the location of the device.

- If the signal strength is flashing 2 LEDs [1&3 then 2&4] then check if the device has a SIM card installed, if not the device has gone into error mode.
- Try power cycling the unit and retesting via the test button.
- Reprogram the device using the app.

4. The App not connecting or sending the data in a reasonable period.

- Is the device in setup mode? i.e., are the signal indicators flashing?
- Exit and re-enter setup mode. To exit press and hold the setup button and then press the mute or test button. Re-enter the setup mode by pressing and holding the setup button for 5 seconds.

NOTE: For all the above issues, please check the power. If the incoming power is off and the internal battery supply voltage is low, issues can arise with communications to the app and sending text messages.

If any issue persists or it is not listed above then contact Triton Controls Ltd using the details in section 7.

5 Servicing the Device

Activating the service mode will enable a service reminder message at a set period. Once the service reminder period is overdue a repetitive message will be sent until the unit is serviced. To service the device set the device into "Setup mode" and exit setup mode:

1. Press & hold the setup button for 5 seconds
2. Exit the setup mode by either:
 - Press and hold the setup mode & press the [mute button or test button]
 - Reconnect the device to the app and reprogram the unit
3. Once exited retest the unit to ensure the correct data remains or has been reprogrammed into the device. Press and hold the Test button for 3s. A test text message will be sent [this can take 10-20s to send].
4. The service message will now be reset and will not repeat until the next service is due

6 Specification

	Rating
Network Coverage	2G
SIM Card Size	Standard
Antenna Interface	Female SMA from the unit

7 Contact Information

ADDRESS: Triton Control Ltd
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Designed & manufactured by Triton Controls Ltd in the UK