



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

ENGLISH

**\*Now Accepts 4G Sim Cards**



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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 below: Or, search the iOS/Google app store for Triton Alarm.




Google Play




iOS

## 2 GSM Programming

### 2.1 General Interface


 [Only available on the LR30 range] The mute button is a momentary tactile switch. When pressed and the alarm is active, a text message will be sent to indicate the alarm has been muted.


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

For the GSM units, holding the test button for 5 seconds or more will send a test text message. The message details all the programmed data to each phone number stored in the unit.

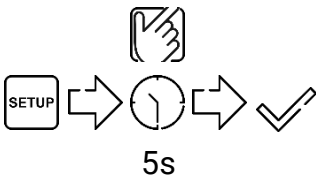
An SMS text is only sent if the alarm is not active.


### 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 4G GSM network. Most Network Providers have been tested.

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

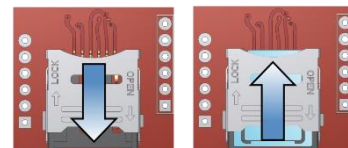


## 2.4 Fitting the SIM Card

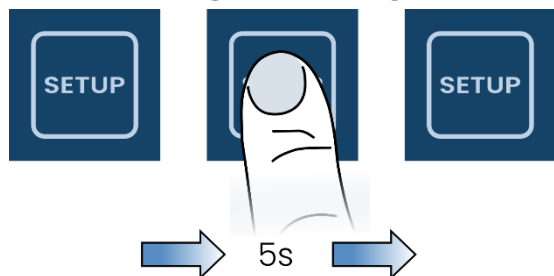
**WARNING:** Isolate/disconnect the incoming power before fitting the SIM card.

 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

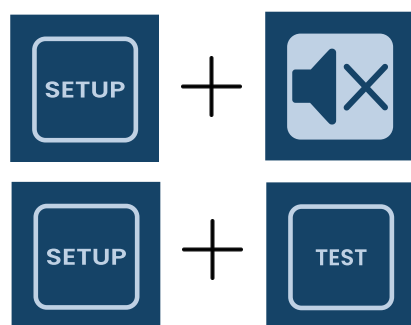


To enter GSM programming mode, press and hold the SETUP button for 5s.

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.

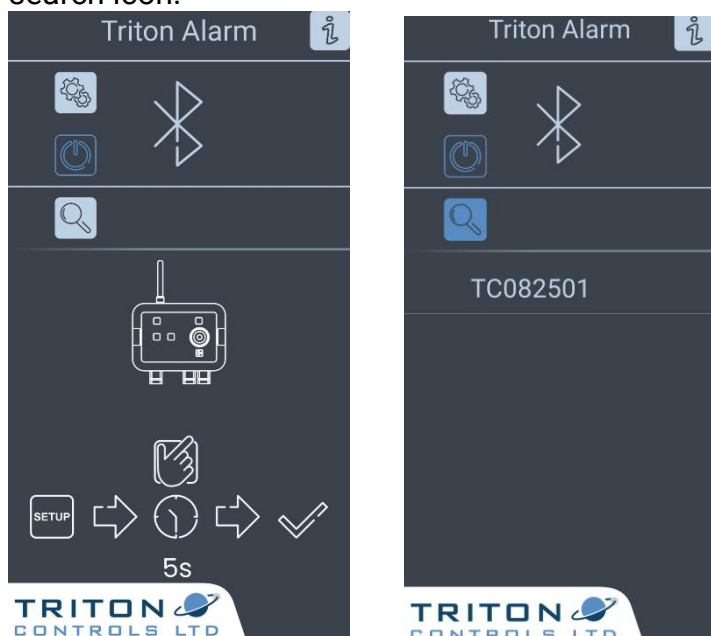
 The device the app is installed on may require the settings altered to allow communications to and from the unit. Access the settings of the device via the settings icon.

 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.

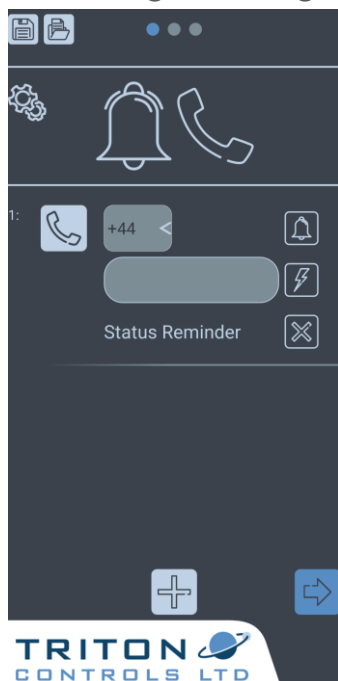
When the unit is discovered by the app, it will be listed below as Triton[serial number]. For self-upgraded units, the serial number is taken from the GSM module.

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.



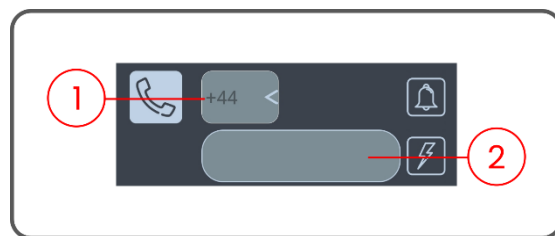
Add phone numbers by selecting the plus icon. There are a maximum of 5 alarm phone numbers.



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:

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



Alarm INACTIVE



Power loss alarm INACTIVE



Alarm ACTIVE



Power loss alarm ACTIVE

Status Reminder is used to send a Text every x days to inform the user the unit is still active. The text message can be changed and the frequency can also be adjusted.

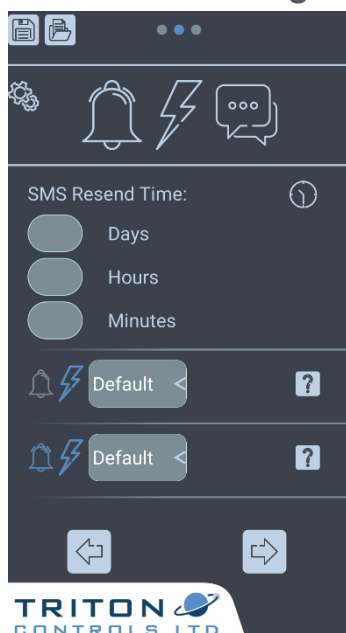


Status Off



Status On

## 2.9 Alert Message Settings



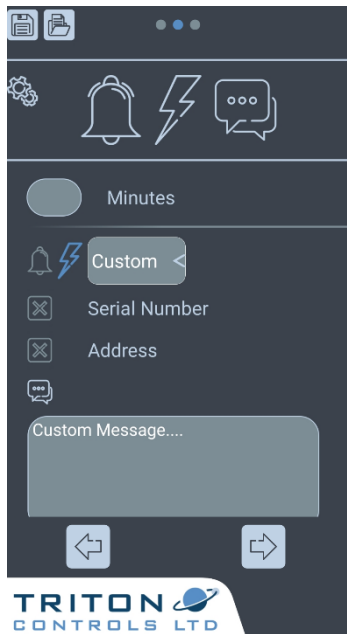
Return to the previous page button.

- 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:



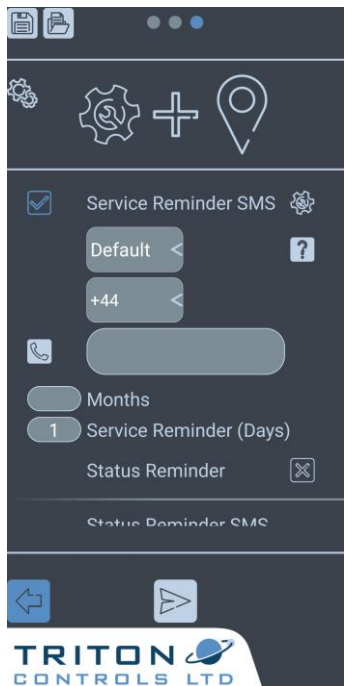
Disabled



Enabled

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

## 2.10 Service, Status, Address & Send

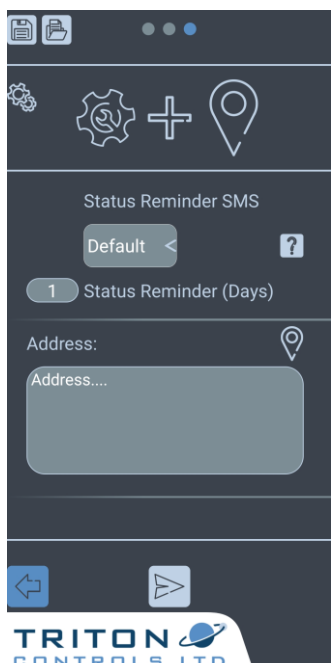


- A service reminder, reminding the user/operator that service is due, can be set with a dedicated phone number.
- Like the alarm alerts, the service reminder has the option for a default or custom message.
- The Status Message can be altered, with option to alter the days.
- Like the alarm alerts, the status 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.



\*New Feature – Sending a Text with STATUS (All capitals) to the Phone number, once the unit has been programmed. The unit will respond – Alarm System Ok with Serial Number and Address, Followed by Current Alarm Status's.



## 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.

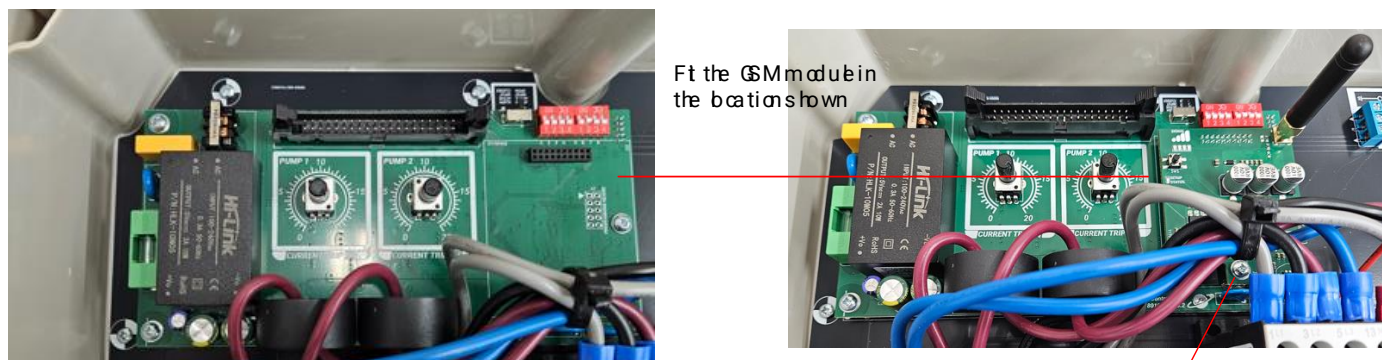
### 3.1 LR30 Range



**NOTE:** The LR30-BASIC & BATTERY may look different to the images above but should be installed the same way.

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

### 3.2 LR40



**NOTE:** The LR40 might look different to the above images, but should be installed the same way.



## 4 Common Trouble Shooting

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### 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

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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

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	Rating
Network Coverage	4G LTE
SIM Card Size	Standard
Antenna Interface	Female SMA from the unit

## 7 Contact Information

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ADDRESS:   Triton Control Ltd  
              Randolph Industrial Estate  
              Evenwood  
              Bishop Auckland  
              DL14 9SJ

TEL:               +44 (0) 1388 833000  
  
EMAIL:            info@tritoncontrols.co.uk  
  
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Designed & manufactured by Triton Controls Ltd in the UK