Programming Guide V 1.1

Specifications

Compatibility	Tunstall / TeleAlarm / Custom
Operating Frequency	869 MHz / Custom
Dimensions	H120 x W65 x D80 mm (without aerials). Aerials - L185 x W12 x D37 mm (when angled)
Power Source	Standard 13A Mains Socket
Wireless Range	1km line of sight
Battery Backup	12 Hour Battery Backup
Auto Low Battery	Daily Check and at every transmission
Radio Receive Category	Channel 1: Class 1 Channel 2: Class 2
Compliance	CE / RoHS 2 / RED
Warranty	24 months

Packing for shipment

The equipment containing cells or batteries must be packed in strong rigid packaging and must be secured against movement within the outer packaging to prevent accidental activation. The sender's name and return address must be clearly visible on the outer packaging.

Safety

Do not dismantle or alter the unit. Do not open the case. Indoor use in dry location only.

Disposal

All electronic waste should be disposed of in accordance with the latest legislation.
It must be disposed of within the electrical and electronic waste stream and not be disposed of in the normal waste stream. Recycling electrical waste products help to conserve natural resources and prevent adverse effects on the environment.
Contact your supplier should you require more information.

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Smart Technology, Made to Care

Orion

Range Extender

Programming Guide V 1.1

Turning signal black spots into hotspots! Never let an alert go undetected again with the Orion range extender.

The Orion range extender uses antenna diversity technology to boost the signal of TEC sensors, thereby significantly increasing their range. Orion helps to ensure that those crucial life saving alerts do not go undetected.

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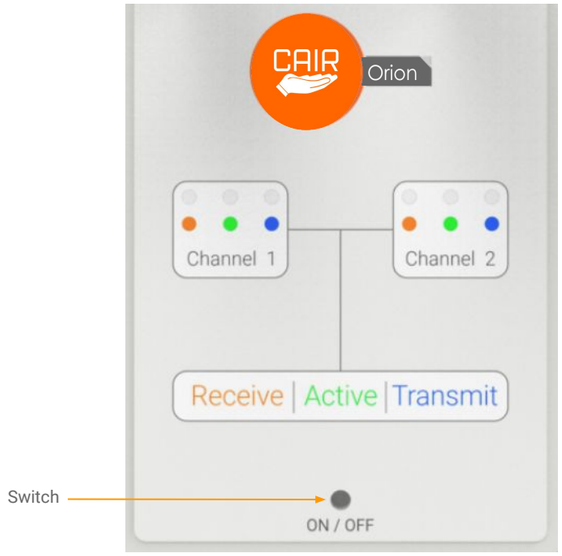
Intended Use

The Orion range extender acts as a signal booster for your telecare devices. The range extender repeats all telecare transmissions up to a range of 1km (line of sight), ensuring important alerts are less likely to be missed.
The unit is mains powered. It also has a back up battery so will still be able to transmit in the event of a power cut or mains failure. When fully charged, the battery should provide up to 12 hours power, depending on usage.
The unit is intended to be installed by a competent person and plugged into a UK style mains socket.

Setting Up

To turn your Orion range extender on, simply plug it into the mains and follow the Switching On instructions below.
For best operation to make the most of the transmit and receive diversity, the two antennae should have different polarisation (set at 90 degrees as shown on the image on the front page).



Switching On

To switch the Orion on, press the switch (see image above) with the end of a paperclip or a suitable instrument and hold for approximately 15 seconds until all the LEDs turn on.
All LEDs will flash 5 times, immediately followed by the flash of the blue LEDs (dependant on mode setting, see table) and a buzzer sound. The green LEDs will then continue to flash, indicating that the range extender is now ready to use.

Switching Off

To switch the Orion off, press the switch with the end of a paperclip or a suitable instrument and hold for approximately 5 seconds until all the LEDs turn off.

General LED Behaviour

	Channel 1	Channel 2
Green	Processor active indicated by flash; Slow flash - mains power Quick flash - battery power	
Yellow	On is edit mode	
Blue	On during power down period 4s On when mode count is made	

Operational LED Behaviour

	Channel 1	Channel 2
Green	Processor active indicated by flash; Slow flash - mains power Quick flash - battery power	
Yellow	Receive	
Blue	Transmit and buzz	

Repeating

By default, the Orion will repeat an incoming signal twice (Channel 2 after six seconds and Channel 1 after twelve seconds). This can be changed to repeat once (Channel 1 only) by changing the Mode Number. The Mode Numbers can also be used to increment the incoming signal ID by 1 so that the receiving unit recognises it as a different trigger.

Changing the mode number

Using the end of a paperclip or suitable instrument, press and hold for two seconds and release. The yellow edit LED will illuminate for a duration of five seconds. During this time, tap the switch the same number of times as the mode required. The blue LED and buzzer will beep every time the switch is pressed.

Mode No.	Function
1	Repeat Twice (Default) (Compatible with Buzzz)
2	Repeat Once (Compatible with Buzzz)
3	Repeat Twice - Incremental* (Compatible with Buzzz/Tunstall Lifelines)
4	Repeat Once - Incremental* (Compatible with Buzzz/Tunstall Lifelines)
5-8	Test modes (do not use)

*Incremental = increases trigger ID by 1.
(when using modes 3 & 4, assign the repeated transmission to the Lifeline/Buzzz, not the original transmission).

To save the new setting, switch the Orion off then back on again. When the Orion powers up, the blue LED and sounder will flash/beep a number of times to confirm the mode number.

Mains Fail Alert

10 seconds after loss of mains power, the Orion will sound and send a radio transmission. This radio transmission can be programmed to a Buzzz or Tunstall Lifeline if desired, to inform a carer or monitoring centre that the Orion has lost mains power.

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