witi
Journey Safely

Anti-Theft System

Version 3

Operation & Installation Guide



AUSTRALIAN MADE AND OWNED

Australia's Most Advanced Anti-Theft System for Caravans and Trailers

Contents

- Warnings & Safety Instructions
- Specifications
- Operating your WiTi Anti-Theft System
- WiTi Anti-Theft front panel indicator lights
- Pairing Remotes and Sensors
- Replacing batteries in remotes and sensors
- Installation instructions
- Circuit Protections
- Disclaimers & Warranty



Comes with:

- WiTi Anti-Theft
- Door Switch
- PIR Motion Sensor
- 2 x Remote Controls
- 105dB horn
- Wiring Loom

Scan the QR code to watch our WiTi operation and installation videos

Warnings & Safety Instructions

Do not operate WiTi unless you have read and understood this manual. Ensure WiTi is installed as per the instructions, failure to do so will void warranty.

Ensure the cable used to install WiTi Anti-Theft is of adequate thickness to provide the necessary current draw for the circuit.

WiTi Anti-Theft must be installed toward the front of the caravan/trailer away from environmental conditions that may cause damage to the units circuitry including water, salt spray and humidity. It is also recommended to be installed away from other electronic equipment and steel or stainless-steel enclosures where RF and Wi-Fi signals maybe interrupted. Contact WiTi if you are unsure.

WiTi Anti-Theft is connected to the internal house battery of the caravan or trailer; insufficient charge of the house battery will affect the performance of the Anti-Theft functions. The condition of the battery in the caravan or trailer must be maintained and checked. Voltage of the house battery is displayed on the WiTi Wireless Brake Controller and Safe Track GPS app if installed.

NOTE : When servicing your caravan or trailer it is recommended that you disconnect power to the WiTi Anti-Theft System to prevent short circuits.

Specifications

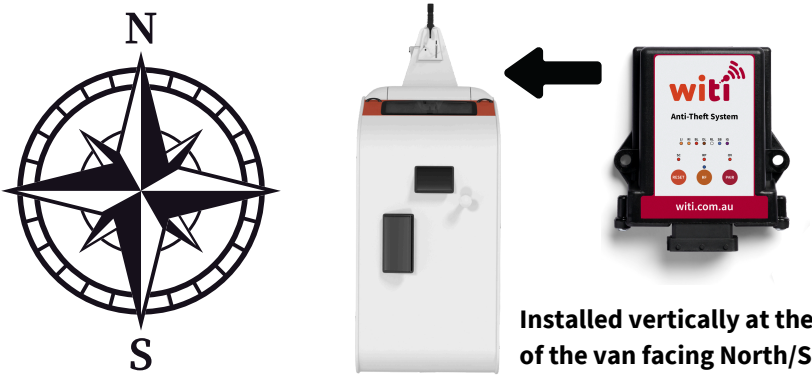
Nominal System Voltage	12VDC
Operating Voltage	12V - 14.5V DC
Standby Current	0.08A
Operating Temperature	-20C - 70C
Max Trailer Axles	3
Braking Circuit Max Draw	25A
Max Rated Current	30A
Weight	45g

Installation Instructions

WiTi Anti-Theft System

The unit must be installed vertically at the front of the caravan or trailer with the wiring harness protruding from the bottom of the unit. WiTi uses gravity to initialise the gyroscope and detects acceleration in the direction of travel. **If not installed correctly functionality will be compromised.**

The unit can be screwed onto a panel through the mounting lugs using appropriate sized screws. **Please ensure the unit is still accessible for pairing and troublshooting purposes**



Installed vertically at the front of the van facing North/South.

The horn is weather proof so it can be installed externally.

The Alarm Status LED outputs must be connected to the supplied 12V LED as per the wiring instructions. The LED will light when the alarm is armed and switch off when the alarm is disarmed. Install the LED in an area which is visible to the user.

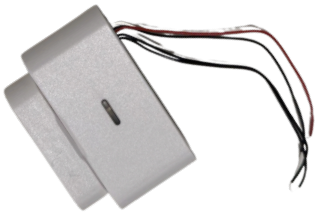
The caravan or trailer battery must be connected to an acceptable charging circuit - either solar panels, anderson plug or DCDC charger.

The wiring loom is supplied with two inline fuses for the power circuit and service brake circuit. The power circuit must be protected by a 30A fuse and the service brake circuit by a 25A fuse. In the case of a single axle caravan or trailer this can be replaced by a 20A fuse.



PIR Motion Sensor

Install the PIR inside the caravan or trailer facing so that it will detect movement along the length of the van. The PIR has a range of 11m and will cover the entire length of the caravan. Do not install it under or near an air conditioning unit, near a heat source (oven / extractor fan) or in an area which receives direct sun light. Install at a height of approximately 2m above the floor. Turn the sensor on with the switch on the side of the unit, the LED will flash briefly, run a self test and then enter normal operating mode.



Magnetic Door Switch

The magnetic door switch comes with two powering options. The unit is supplied with a 12v 23A battery for simple install and use. We also offer direct wiring of a 12VDC power supply via wires red + and black - allowing constant powering from the onboard battery bank. If you are using this option please remove the factory installed 23A battery. Addtional to this a switching loop (2 x orange wires) are provided to allow multiple wired door switches to loop back to one central switching point. Install the door switch on either side of the door frame so that opening the door will cause the two parts to move apart to activate the sensor. Test the location for activation before permantly mounting each side using the double sided tape included with the switch. When the switch is activated a blue LED will shine.



Wired Door Switches

Wired door switches can be purchased additionally and multiples can be looped to one Magnetic Door Switch using this as a trigger for the Anti-Theft System.
This is a great added feature for protecting toolboxes, tunnel boots, tradie trailers and ute backs where our Magnetic Door Switches may not be suitable.



WiTi Break Away Switch

The WiTi Anti-Theft System now supports break away functionality. This switch can be purchased additionally and comes with a 3m prewired plug n play loom for easy installation. More detail on looming and pin outs are provided below on pages 7 & 8.

Circuit Protection & Faulting Conditions

In the event a short circuit or an overload is detected, WiTi Anti-Theft will disable all functions and the corresponding LED will light on the front panel. All functions will cease until the error has been addressed and the appropriate circuits repaired.

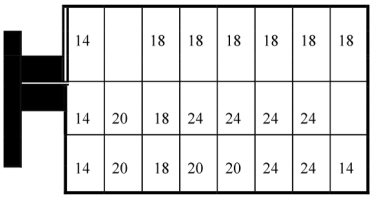
In the event of a reverse polarity the corresponding LED will light and all power to the circuit board will be cut.

NOTE: When servicing the electric brakes or magnets it is recommended that the WiTi is disconnected to prevent accidental short circuits.

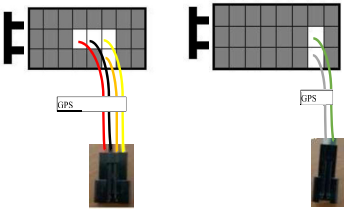
Anti-Theft plug and loom pin out configurations

Main loom plug pin out configuration from Anti-Theft unit.

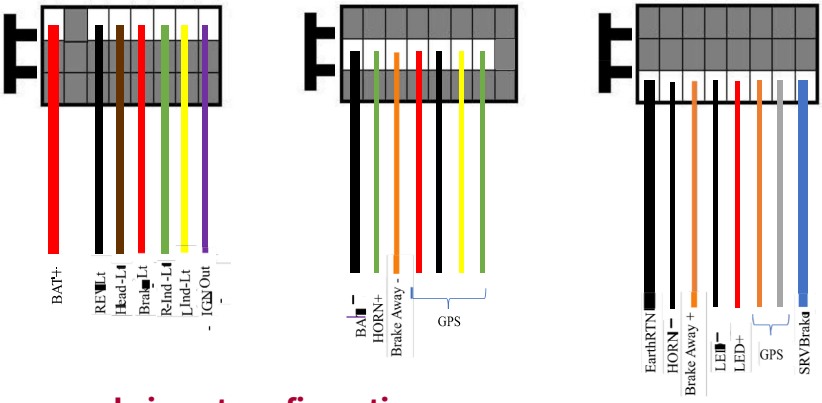
Wire AWG Rating



GPS Pin Outs

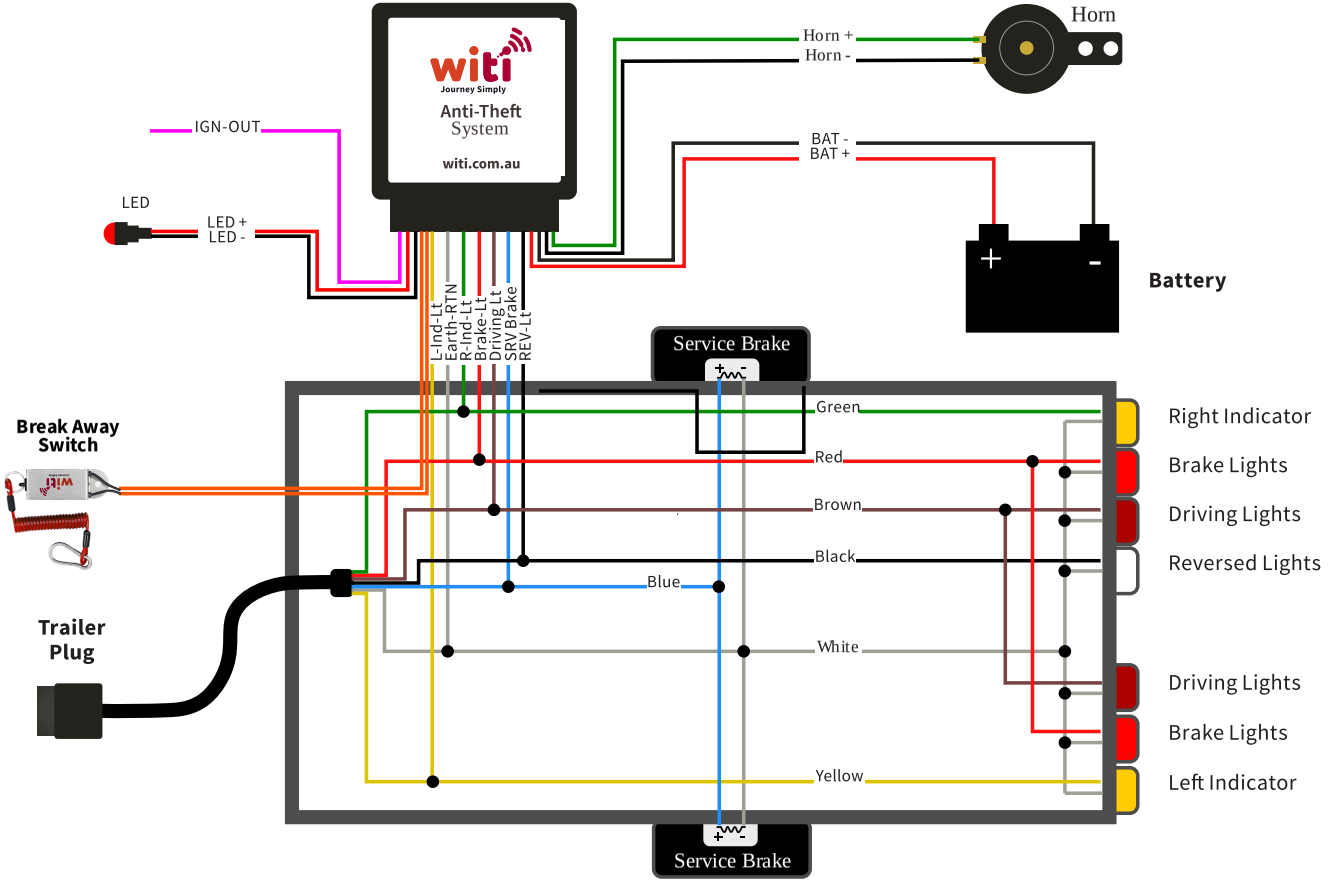


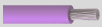
View from back of connector



Loom end pin out configuration

Duetsche Connector Pin Outs									
Image	**Part #**	**Pin 1**	**Pin 2**	**Pin 3**	**Pin 4**	**Pin 5**	**Pin 6**	**Pin 7**	**Pin 8**
	DT04-2P	LED +	LED -						
	DT06-2S	Break Away +	Break Away -						
	DTP06-2S	SRV Brake	Earth RTN						
	DT06-08SA	HRN -	REV-Lt	Brake-Lt	IGN-Out	L-Ind-Lt	R-Ind-Lt	Head-Lt	HRN +


witi
Journey Simply
Anti-Theft
System
witi.com.au
IGN-OUT
LED
LED +
LED -
Horn +
Horn -
Horn
BAT -
BAT +
Battery
L-Ind-Lt
Earth-RTN
R-Ind-Lt
Brake-Lt
Driving Lt
SRV Brake
REV-Lt
Service Brake
Break Away
Switch
Trailer
Plug
Green
Red
Brown
Black
Blue
White
Yellow
Right Indicator
Brake Lights
Driving Lights
Reversed Lights
Driving Lights
Brake Lights
Left Indicator
Service Brake

Colour		Label	Function
Yellow		L-Ind-Lt	Left Indicator
Green		R-Ind-Rt	Right Indicator
Red		Brake - Lt	Brake Light
Brown		Head - Lt	Park Light & Markers
Black		Rev - Lt	Reverse Lights
Blue		Sr - Brake	Electric Brake Output
White		Earth - Rtn	Earth Return
Purple		IGN - Out	Ignition Feed - Not used on WiTi Ar
Orange		Brk - Away	Break Away Switch Loop
Green		Horn +	Alarm horn positive output.
Black		Horn -	Alarm horn negative output.
Red		LED +	Alarm Status LED 3.3V+
Black		LED -	Alarm Status LED 3.3V-
Red		BAT +	12V+ connect to positive terminal on house battery and protect with 30A fuse.
Black		BAT -	NEG connect to negative terminal on house battery

Operating your WiTi Anti-Theft System

WiTi Anti-Theft is Australia's leading Anti-Theft and Intrusion Detection System designed for caravans and trailers.

In the event an attempt is made to tow the caravan or trailer the Anti-Theft system will be activated. All the lights flash, the alarm sounds and the brakes are applied making it impossible to tow the caravan or trailer. This continues as long as movement is detected. Once movement ceases WiTi Anti-Theft will reset after 30 seconds. WiTi Anti-Theft is sensitive to acceleration and high frequency impacts (metal on metal). A sideways / rocking motion has been programmed out to prevent activation in windy conditions.

WiTi Anti-Theft includes a Passive Infra Red Motion Sensor and a Magnetic Door Switch. If the door is opened or movement is detected within the caravan or trailer then the system will be activated. The Motion Sensor can be switched on/off via the switch on the side of the Motion Sensor Unit. By switching off the Motion Sensor the alarm can be armed whilst moving around inside the caravan/trailer.

To activate WiTi Anti-Theft, press button A on the remote control, the side and front markers and indicators will flash once followed by a 3 second safety pause and then a double flash to indicate the system is armed. The Alarm Status LED will illuminate. To deactivate, press button A again, the side and front markers and indicators will flash once and the Alarm Status LED will switch off.



Button B on the remote control activates an emergency Panic Alarm. To activate the Panic Alarm, press and hold Button B for 3 seconds. To deactivate press and release button B again.

WiTi incorporates an advanced safety system to ensure the system cannot be accidentally activated whilst the caravan or trailer is being towed. After activating the system, if movement is detected during the 3 second safety pause the system will not arm. The lights will not flash twice and the Alarm Status LED will not illuminate.

WiTi Anti-Theft front panel indicator lights

There are two LED's embedded in the WiTi logo. When the unit is receiving power the orange LED will illuminate. When the unit is paired and linked to a WiTi Wireless Brake Controller or WiTi Wireless Towing Interface then the red LED will illuminate.

The 7 coloured LED's correspond to the various outputs and are colour matched to the wires on the wiring loom. These will illuminate when the corresponding output is active. This will assist with fault finding and confirming that the outputs are functioning correctly.

LI - Left Indicator
RI - Right Indicator
BL - Brake Light
DL - Driving Lights & Side Markers
RL - Reverse Lights
SB - Service Brakes
IG - Vehicle Ignition



The following LED's describe fault conditions:
SC - Short Circuit
RP - Reverse Polarity
OV - Over Voltage

The RESET and PAIR buttons are used to pair WiTi Anti-Theft to a WiTi Wireless Brake Controller or WiTi Wireless Towing Interface. Please follow the instructions contained in those guides for the pairing process.
The RF button is used to pair remote controls and sensors to WiTi Anti Theft.

Pairing Remotes and Sensors

The WiTi Anti-Theft system is supplied with two remote controls, a Passive Infra-Red Motion Sensor and a Magnetic Switch Sensor. Additional PIR Motion Sensors and Magnetic Door Switches can be purchased from WiTi and added to your existing system by following the instructions below.

Programming remote controls

For each new remote control, short press the RF Button on the front panel. The blue LED above the button will flash once to indicate it is in pairing mode. Now press Button A on the remote control and the LED will flash repeatedly for a few seconds.

Programming the PIR Sensor

Turn the power off on the PIR by using the slide switch located on the left hand side of the unit. Short press the RF button on the front panel and the LED will flash once to indicate it is in pairing mode. Now turn the power on on the PIR with the switch on the side of the PIR. The LED will flash repeatedly for a few seconds. The PIR is now programmed. Multiple PIR units can be programmed by repeating the above instructions. **(when pairing addtional sensors make sure previously paired PIR's are turned to the off position)**

Programming the Magnetic Door Switch

Ensure the door is closed. Short press the RF button on the front panel and the LED will flash once to indicte it is in pairing mode. Open the door and the LED will flash repeatedly for a few seconds. The door magnet is now programmed. Multiple Magnetic Door Switches can be programmed by repeating the above instructions. **(when pairing addtional sensors make sure previously paired PIR's are turned to the off position)**

Clearing all programmed units

To clear all previously programmed units press and hold the RF Button on the front panel for 10 seconds. This will erase all previously programmed remote controls and sensors.

Remote and Sensor battery life

Remote Controls

When the battery in the remote has been exhausted, there will be no signal light on the remote when clicking on any button. To replace the battery, unscrew the three small screws on the back cover of the remote control and remove the cover. Replace the battery with type 27A 12V. Replace the cover and tighten the three small screws in place.

PIR Motion Sensor

When the battery in the PIR has been exhausted, the movement sensor light will shine orange. To replace the battery, switch off the PIR with the slide switch on the side of the unit. Remove the screw at the base of the unit and gently pry off the cover. Replace the battery with a standard 9V Alkaline battery. Replace the cover and tighten the screw at the base of the unit. Batteries will last about 3-6 months with regular use.

Magnetic Door Switch

When the battery in the door magnet has been exhausted, the indicator light when the magnetic switch is activated will shine red. To replace the battery, pry the cover off the larger magnetic switch component, the one with the blue LED at the end with the recess in it. A small screwdriver might be required to assist in doing this. Remove the old battery and replace it with type 23A 12V. Replace the cover in the same orientation as it was removed to avoid damage. Batteries will last about 3-6 months with regular use.

* Please discard old batteries in a responsible manner.



23A 12V Battery

Limited Warranty

If Leisure Technologies determines that you are covered by a warranty as set in the Australian consumer law the company shall at its expense: (a) repair the product or replace the product with a new unit (which may have used refurbished parts of similar quality); (b) ship the repaired or replaced unit back to you; (c) warrant the repaired or replaced product for a reasonable period; and/or (d) refund money paid for the product. The Company has the discretion as to which remedy applies.

Warranty period

The warranty period starts on the date of purchase and ends 24 months later. For the purpose of this limited warranty, the date of purchase is the date indicated on the original bill of sale or receipted invoice for the product from the vendor from which you acquired this product.

How to get warranty service

During the warranty period, if you wish to return a defective product you may contact us via www.witi.com.au. You may then return the defective product to the address given accompanied by an acceptable proof of purchase (a bill of sale or receipted invoice).

What is not covered

The limited warranty does not cover a product:

for which you are not the original purchaser;

- that is damaged by using it in a way that was unreasonable or unintended;
- that is returned after the applicable warranty period set out above has expired;
- that has been installed other than per the product installation guidelines;
- that has been maintained, altered or modified, opened or repaired, other than by the company or by a company authorised service centre; that has been physically damaged, other than by the company or a company authorised service centre.

To the extent permitted by law, Leisure Technologies, its directors, officers, employees, suppliers and agents, shall not be liable for injury to persons or property, or for any indirect, special, incidental or consequential, punitive or exemplary damages and liability and shall be limited to the amount you paid for the product.

Other important notices

To the extent permitted by law, this limited warranty constitutes the entire agreement on the subject matter and supersedes any prior agreement or understanding, written or oral. Where used herein, the company shall mean Leisure Technologies Pty Ltd and its subsidiaries and associates

Our goods come with guarantees that cannot be excluded under the Australian consumer law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits under your warranty are in addition to other rights and remedies under the law in relation to the product.

Disclaimer

WiTi products are designed for installation by reasonably competent consumers. Consumers are taken to have sufficient knowledge of the intended caravan or trailer unit and its appropriateness for the installation of any WiTi products.

Prior to the installation of any WiTi product consumers are taken to have comprehensively read and understood the appropriate WiTi operation and installation guide included with the product.

Installation of WiTi products may require consumers to have knowledge and experience using powered tools and electrical wiring. Consumers without such knowledge are to refrain from attempting any installation of WiTi products and to consult their nearest WiTi specialist or qualified Auto Electrician.

It is the consumer's sole responsibility to have WiTi products properly installed on their vehicle and/or trailer units along with any modifications necessary for the proper installation of WiTi products. Consumers are solely and completely responsible for evaluating their trailer units to ensure that the trailer units, and each part thereof, is appropriate, adapted, and applicable for installation and use of WiTi products.

Any and all WiTi unit damages caused by a consumer's failure to modify the caravan or trailer properly for installation and use of one or more WiTi products not covered by this disclaimer is the sole responsibility of the consumer.

Leisure Technologies Pty Ltd and their distributors and resellers also expressly disclaims all liability for direct, indirect, special, incidental, or consequential damages, including but not limited to, damage or loss of property or equipment, injury to person whether physical or not, loss of profits or revenue, cost of purchase or replacement of goods, or claims of customers of the purchaser that result from the incorrect installation of any WiTi Anti-Theft unit or subunit.

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