# fleetminder

# FM AT4G Wiring & LED Codes

PIN	COLOUR	Description	COMMENT	
1	Orange	ADC Vin		
*2	White	Ignition	Ignition input 9~36v	
3	Blue/Brown	TTL (TxD)	TTL	
4	Orange/Brown	Vout1	3.3v DC 250mA	
5	Pink	Input 1 Analogue	0~36v	
6	Blue/Yellow	RS232 (TXD)		
7	Blue	Input 1 Digital	Low Level	
8	Purple	Input 3 Digital	Low Level	
9	Grey	Input 4 Digital	Low Level	
10	Brown	Output 2 Digital	Ground Out 200mA to relay Pin 86	
11	Brown/Blue	Power Out	5V or 12V Output DC 2A	
12	Black	Ground		
*13	Red	Battery	9~32v DC	
*14	Black	Ground	Chassis Ground	
15	Green/Brown	TTL (RxD)	TTL	
16	Orange/Yellow	Vout2	3.3v DC 250mA	
17	Brown/Black	Input 2 Analogue		
18	Green/Yellow	RS232 (RXD)		
19	Black/Green	1-WIRE		
20	Blue/Brown	Input 2 Digital	Low Level	
21	Green	Output 1 Digital	Ground Out 200mA to relay Pin 86	
22	Yellow	Output 3 Digital	Ground Out 200mA to relay Pin 86	
23	Blue/Yellow	CAN Low	Low Level	
24	Green/Yellow	CAN High	High Level	
Do NOT attempt to disable the starter on a push button start vehicle				
NEVER disable ignition circuits or circuits that will stop a moving vehicle				

The minu	mum requ	irement fo	r accurate	tracking re	quires con	nection of	pins 2, 13	& 14.				
				-		_						1
1	2	3	4	5	6	7	8	9	10	11	12	
13	14	15	16	17	18	19	20	21	22	23	24	1
15	14	15	10	1/	10	15	20	- 21		23	24	
										<u> </u>	<u> </u>	1
Pin 2	White	Ignition										
Pin 13	Red	Battery										
Pin 14	Black	Ground										



 $\diamond$  The definition of the prints on the front of the shell

G: GPS Signal

C: COMMS (SIM Signal)

**B:** External power

 $\diamond$  GPS indicator status

Status	Indicator
GPS off	Light off
GPS signal is weak	Light flashes
GPS time synchronization	Light flashes quickly
GPS positioning	Light stays ON

 $\diamondsuit$  COMM indicator status

Status	Indicator
Module closed	Light off
Communication turned on for searching	Light flashes slowly
Network signal available	Light flashes quickly
Registration completed, no access to Network	Fixed flash changed to quick flash 1 sec
Registration completed, access to Network	Light stays ON

 $\diamondsuit$  External power indicator status

Status	Indicator
No external power supply	Light flashes
With external power supply	Light stays ON

### Digital output relay wiring



The relay can be used to disable the starter motor on key start vehicles. Do not attempt to disable a moving vehicle or a push button start vehicle. In this case we recommend a siren on the output instead.

Care should be taken when wiring relays on 24 volt vehicles that the relay is suited.

**Device Orientation** The 3D sensor of device can monitor accident and events of harsh driving behavior.

The accuracy of 3D sensor is limited by the installation direction and mounting stability.

Note: The upside of the shell must be facing upwards as shown in the picture below.

It is recommended to orientate the device in the same direction as the vehicle with the loom at the front or rear for best results.



# Wiring Notes

**Pin 2** (White) ignition should be wired to a source that stays live under crank conditions to avoid multiple ignition event logs. If Pin 2 is not connected the device may be configured to go into sleep mode to preserve the battery.

**Pin 13** (Red) should be wired to a source that remains live under crank conditions when starting to avoid volt drop alerts. When power is removed from Pin 13 the device battery will take over, then recharge when power is restored. This is ideal for vehicles with battery isolators.

**Pin 14** (Black) should be taken to the vehicle chassis. We do not recommend a ground source provided by another wire as it may change state under certain conditions.

# Testing and Support – 08 93837833 or tech@neltronics.com.au

Once the device is installed you should have 3 green LED's. Cycle the key a few times to generate some data events and login to the account to check for these events. You want to see an accurate location, and at least 1 key on and off event. This may take a few minutes to come through in the 1<sup>st</sup> instance.

On the mobile apps you will have trips generated, which require a key on and off.