

## AT100 Quick Installation Guide

### 1. Install the GSM SIM card

Insert the SIM card into the small slot in the side of the AT100, until it is flush with the edge of the case. Correct orientation of the SIM card is important for correct operation and to avoid damage to the SIM – see below:



### 2. Protect SIM card

Once the SIM is installed, it is advisable to cover the SIM slot with tape or an anti-tamper label, to protect against ingress of dirt and deter tampering.

### 3. Power Supply

The AT100 should be connected to a permanent power source - voltage range 6 to 30 VDC, with a 1.0A in-line fuse, fitted to both POSITIVE and GND feeds. If using CB001 Power Cable, hook up the RED and BLACK wires appropriately.

### 4. Ignition Sense Input

The white IGN SENSE wire included in the standard CB001 power loom is used to sense the vehicle's ignition state. This wire must be connected to a source which goes high (12/24V) only when the vehicle ignition is on. In line resistors are NOT REQUIRED.

### 5. Additional inputs/PTOs

If additional inputs (PTOs) are required, fit a CB004 or CB005 cable to the 36 way data connector and connect the appropriate inputs as necessary. No ground return is necessary, as the ground is common with the power source. In line resistors are NOT REQUIRED. No wires should be shorted together and unused wires should be insulated.

Signal	CB004 Cable	CB005 Cable
Digital 1 – IGNITION	WHITE	YELLOW
Digital 2 – PANIC BUTTON	ORANGE	ORANGE
Digital 3	CYAN	GREEN
Digital 4	PURPLE	BLACK
Digital 5	RED	RED
Digital 6	BROWN	BROWN
ADC INPUT	PINK	N/A

## 6. Install Antenna

Install antenna in a location that gives the best possible 'view' of the sky, away from any conductive (i.e. metallic) objects. Route the cable to the AT100, avoiding tight bends/kinks. Also avoid coiling the excess cable too tightly, as this can deteriorate antenna performance.

**Note: AE003 antenna must be installed with the adhesive side facing skyward**

## 7. Connect Antenna to AT100

Connect antenna to the appropriate coaxial connectors on the AT100. Push the connectors as straight as possible to avoid damage. Also avoid any sideways force on the mated connectors. Route and secure cables, avoiding any tight bends or strain on the ends that are mated to the AT100 device.

## 8. Connect Power to AT100

Confirm that there is 12/24V present across the RED/BLACK wires and the plug the CB001 power cable to the mating connection on the AT100. Note that the AT100 will power up from its internal battery, regardless of the external voltage (connecting the BLUE wire to GND causes the AT100 to power on).

## 9. Check LED Indicators

After about 20 seconds, the BLUE LED should start to flash, **once every 2 seconds** to indicate network registration (Note: on older Rev D/E devices, the BLUE LED will flash once per second)

A minute or two later, the GREEN LED should start to flash, **once a second** to indicate that GPS tracking is available.

If LEDs do not flash as normal, check antennas and SIM.

## 10. Confirm Successful Registration with Host Server

### a. OPTION 1

Call the service provider and confirming that the device has just come online. An IGNITION ON/OFF event is also useful in this case, to confirm proper connection of the ignition sense and any other PTOs.

### b. OPTION 2

Send a \*STAT?# by SMS to the AT100. The device should respond within a minute or two. Confirm external voltage and error free operation from response:

```
STATUS:359449009001234;2.28;02/10/2008;10:20:49;51.689366;-  
0.224821;0;260;26.8;95;328;8/10;H;0;0;0;0
```

Confirm external Voltage OK

All 5 zeros indicates no errors

If there are problems/errors, refer to the full AT100 Installation Guidelines and Over the Air Diagnostics documents for troubleshooting information.

## 11. Cover LEDs

Tape over the AT100 LEDs to avoid the chance of them being seen at night.