

FD-420-BT GPS via BLUETOOTH™ MODULE

DESCRIPTION

The FD-420-BT Module is an intelligent GPS to Bluetooth device with logging capabilities. The device provides 4 digital inputs for recording specific asynchronous events.

When not within range of a suitable Bluetooth device the FD-420 can log up to 16,383 points of tracking information for later retrieval using non-volatile circular buffer memory.

CONTENTS

The FD-420-BT is supplied with the following items:

FD-420-BT device.	GPS Antenna, 3V Active.
Interface and power cable.	1A 3AG fuse and fuse holder.
This information sheet...	

SPECIFICATIONS

Operating voltage:	12VDC +/-20% or 24VDC +/-20%
Current consumption:	120mA MAX. 10mA when ignition off (if enabled)
Operating frequency:	Bluetooth 2.4GHz ISM band
Bluetooth Version:	1.1 (Serial Port Profile only)

BLUETOOTH FACTORY DEFAULTS

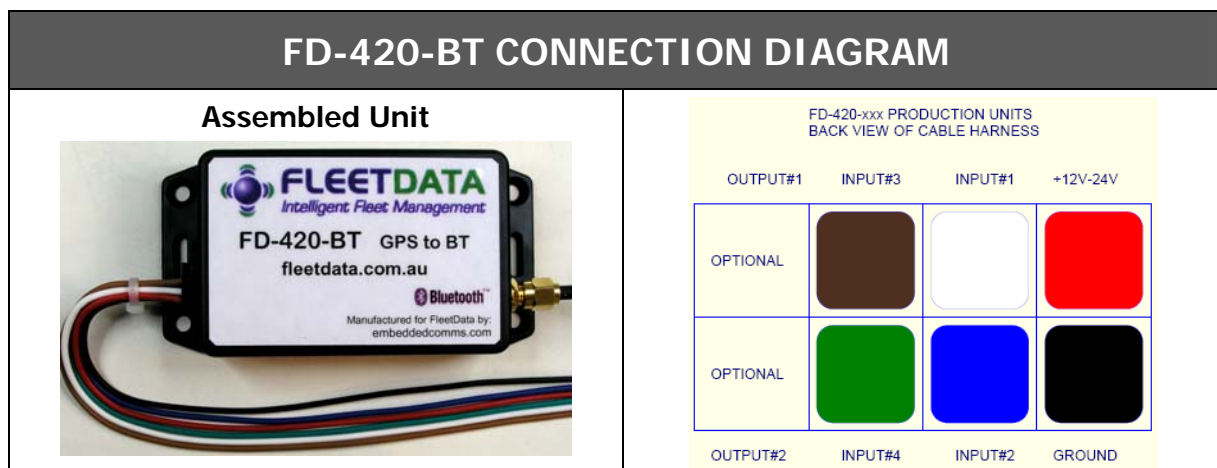
When the module is shipped from the factory the Bluetooth interface is defaulted to the following pairing settings:

Device Name: FleetData-XXXXXXXXXX where X's represent the device serial number.

Pass Key: The default pass key is 0000.

The Bluetooth module will pair with a host Bluetooth controller and be visible as a Serial Port Profile (SPP) device.

FD-420-BT INSTALLATION INFORMATION



FD-420-BT CONNECTION DETAILS	
WIRE COLOUR	DESCRIPTION
POWER	
RED	+12VDC or +24VDC (note 1 & 5)
BLACK	Chassis Ground
INPUTS	
WHITE	INPUT #1 – 12V Switched Accessories Power (note 2,4)
BLUE	INPUT #2 – Customer use (note 3,4)
BROWN	INPUT #3 – Customer Use (note 3,4)
GREEN	INPUT #4 – Customer Use (note 3,4)

**WARNING: DO NOT CONNECT POWER UNTIL
ALL OTHER CONNECTIONS ARE IN PLACE**

NOTES:

1. Connection to 12VDC must be fused using supplied 1 amp automotive fuse and fuse holder.
2. Switched Accessory Power must be connected to input #1 if the smart power-save feature is enabled. Please consult your software manual for enabling this feature.
3. The use of these inputs are user selectable. They are general purpose inputs that must be pulled to 12VDC to change their state otherwise they are read as off.
4. The inputs are sampled over a 1 second period, so for a state change to be recorded the event change must be present for at least 1 second.
5. The unit is suitable for connection to either a 12VDC or 24VDC system.

CONNECTING AND MOUNTING THE ANTENNA

The supplied GPS antenna must be connected to the FD-240-BT correctly in order to obtain a valid satellite fix. The following must be considered when connecting the antenna.

1. Connect the antenna to the gold FD-240-BT screw connector as shown in the assembled unit diagram above.
2. Finger tighten the screw connector to a positive stop. *Do not over tighten*

The GPS antenna must be mounted in such a way as to ensure it has as much an uninterrupted view of the sky as possible. The rear parcel shelf of a sedan may be suitable. The base of the antenna is magnetic thus it can be mounted external to the vehicle. Be careful while laying the cable not to crease, cut, twist or kink the cable as this may break the internal conductors or significant affect its operation.