BatRF Tractor Interface Module(TIM) Installation Instructions

How It Works

The TIM (Tractor Interface Module) is an intuitive device that that interfaces between the PeopleNET on board computer and the BatRF wireless TPM sensors.

The TIM ships with the following:
1) A Tractor Interface Module
2) A PeopleNET g3 services interconnect cable
3) Adhesive backed mushroom Velcro and primer to mount the TIM

Installing the Unit

1) Locate the PeopleNET g3 Onboard computer (OBC). **TIP** – Typical mounting locations for the g3 OBC are: a) behind or under the passenger seat b) behind or under the driver's seat c) For Sleeper Cabs, in the storage area under the bed accessible from the outside of the truck.	

2) Select a mounting location for the TIM. IMPORTANT – The TIM wirelessly communicates with the Airbat TPMS sensors; thus the mounting location must meet the following requirements:

● **DO** mount the TIM at window height or higher in the cab.

● **DON'T** mount the TIM where metallic objects are within 1" of the front face next to the upper right hand corner of the box (where the receiving antenna is located).

● **DON'T** mount the TIM within 12 inches of other wireless transmitters (in-cab WiFi, Blu-tooth and microwave ovens).

Typically the TIM is mounted above the passenger door (sleeper cabs) or on the lower passenger side of the rear window.

TIP – Choose a location that will allow for easy routing for the cable that runs between the TIM and the PeopleNET g3 OBC.

4) Install the TIM

Peal the Mushroom head Velcro adhesive back strip and adhere a piece to each end of the back of the TIM. Mount the mating pieces to the TIM and remove the backing adhesive strip. Press the TIM into its mounting location so the adhesive will stick.

4) Install the cable between the TIM and the g3 OBC. Attach the serial port to the 9 pin D connector of the TIM unit and tighten the thumb screws. Connect the cable locking DIN connector to the onboard computer g3 services port (black over-molding) and tighten. Both power and serial communications are run through this cable (eliminates the need for a separate power cable). The TIM connects to the PeopleNet On Board Computer (OBC) via a g3 interface cable. The g3 Services connection is a short cable with a black round locking DIN connector that is provided with the TIM unit.	
5) Connect the 9 pin D cable to the TIM and tighten the thumb screws	
6) Connect the 6 pin round DIN connector to the BLACK insulated 6 pin DIN connector that comes out of the breakout connector of the PeopleNET OBC and tighten the locking thumb nuts together by hand. NOTE- Don't connect to the RED or BLUE insulated connectors…it must be the Black insulated Connector which is the g3 services port. NOTE - Both power and serial communications are run through this cable (eliminates the need for a separate power cable).	
To allow the BatRF TIM to communicate with the PeopleNET g3 services port, the port must be assigned and configured using the PeopleNET in cab keyboard and display.	

Configuring the PeopleNET g3 Serial Port

To allow the BarRF TIM to communicate with the PeopleNET g3 services port, the port must be configured. This is done through the *OBC Administration Menu* on the display. To configure the port, follow these steps:

```
  DISPLAY CONFIG    ^
  REFRESH
->OBC ADMINISTRATION
BACK           SELECT
```

Step 1:   From the main menu select Main and use the down arrow to scroll through the menu options to the bottom of the list. Select "OBC Administration" from the main menu.

```
Password
9238

BACK              DONE
```

Step 2:   Using the keyboard enter the password, "9238". Then select "Done".

```
  COMMS TEST
->ASSIGN SERIAL PORT


BACK    SELECT
```

Step 3:   Select "Assign serial port".

```
->g3 Services
  OBDII
  GPS Data
BACK           SELECT
```

Step 4:   Select "g3 Services". This will assign the serial port to be used by g3 Services.

```
  38400            ^
  57600
->115200
BACK      SELECT
```

Step 5:   Select the baud rate. The port can be configured to run at 57,600 baud.

If the serial port assignment has been changed, the OBC must be reset to make the change effective.

```
THE G3 OBC WILL BE
RESET FOR THE CHANGE
   TO TAKE AFFECT
OK              CANCEL
```

Step 6:   Select "OK" to reset the OBC and to finish the port configuration.

Testing the Unit

After waiting about 30 seconds after the PN display has powered up …press the UP Arrow until you see a line that says

Ok BatRF TPM0 S0

This line is placed on the PN terminal by the BatRF TIM. Every 2.5 seconds the TIM alternates the first character in the line between a space and an "*" or a space and an "!" if there is an error or a low/flat tire.

To test the AirBat TIM device after installation turn the power on ……………………………..

Data Entry Into WebBat

Record the Vehicle #, Vehicle Type, Sensor Serial # and Wheel Position (optional) and enter the information into WebBat.

Trouble Shooting

If the TIM is unable to communicate with the PeopleNet OBC it will be indicated with a blink code on the LEDs of the TIM.

Part# 09-930-8210

Certifications

FCC (USA)

This unit complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID: SRA-821

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the
   receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. Users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying Rf exposure compliance.

Should you need any additional assistance with any problems or issues please contact STEMCO Customer Service at (800) 527-8492.

Industry Canada

This product meets the applicable Industry Canada technical specifications
Le présent materiel est conforme aux specifications techniques applicables d'Industrie Canada.
IC: 7413A-821