

## Temperature sensor configuration For SkyPatrol's Application

**Objective:** Setup the SkyPatrol device to work correctly with Temperature sensor in SkyPatrol's application

### SkyPatrol Configuration

The temperature sensor works to a different baud rate (9600) then the SkyPatrol device default baud rate (15200). It is necessary change this parameter to work properly. Use the following commands to setup the SkyPatrol device

- Disable Echo  
ATE0
- Change speed communication  
AT+IPR=9600
- Save configuration\*  
AT&W

\* Before you send the save configuration command you have to change the baud rate in your serial port application used to setup the SkyPatrol device

### Sensor Configuration

Use the followings commands to setup the temperature sensor.

- Setup the sensor ID, it must be the same value used with AT\$MDMID  
AT\$ID=A999999
- Setup the header of the messages  
AT\$HEADER=AT\$MSGSEND=2,"TE,
- Setup the footer of the messages  
AT\$FOOTER="
- Setup the time to report  
AT\$TIME=300
- Setup the units of measure  
AT\$UNIT=C

If you need check ranges of the temperature, setup those ones:

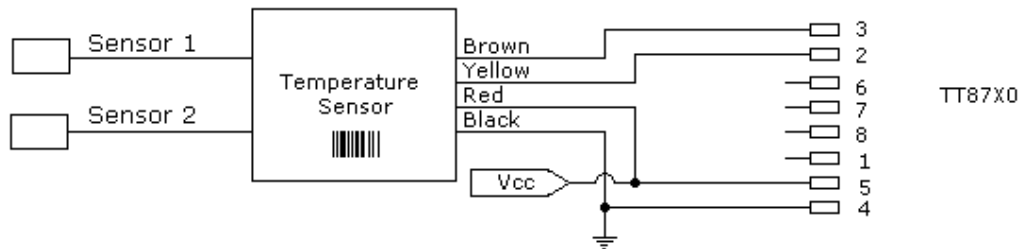
- o AT\$SETLO=1,±010
- o AT\$SETHI=1,±030
- o AT\$SETLO=2,±010
- o AT\$SETHI=2,±030

**Note:** The commands used to configure the sensor of temperature must be in uppercase

## Temperature sensor Connection

The following diagram is to connect the temperature sensor to the TT87X0 family

Temperature Sensor Connection



### Notes:

To connect the serial communication cables (Yellow(RX) and Brown (TX))

If longer cables are required, take note that the serial is extendable up to 15 feet and the sensor cables up to 50 feet in length.