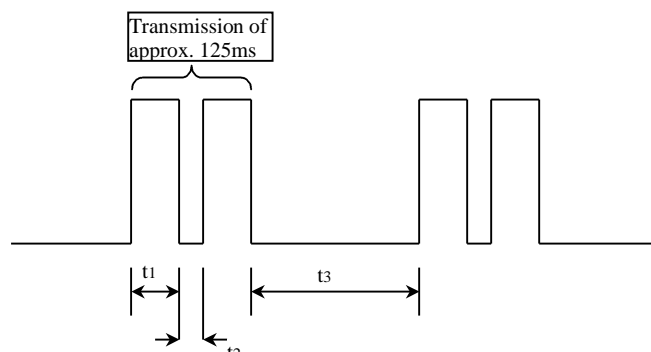


TMS10 Tyre Pressure Sensor**TASv3.hex Transmission Strategy**

Two packets of information per transmission

Each packet = $t_1 = 52\text{ms}$ nominally*

Pause between each packet = $t_2 = 20\text{ms}$ nominally (carrier off)

FSK modulation. Typ $\pm 25\text{kHz}$. Max $\pm 35\text{kHz}$

Interval between each transmission = t_3

*Each packet consists of a *preamble* followed by a *sync pulse* followed by the *data*.

Production unit TMS10:

Sample Number: S0520

Default:

$t_3 = 300$ seconds nominally (there is a random element to this to prevent ‘clashing’)

Emergency Duty Cycle:

The unit samples every 2.5 seconds nominally. If there is a change in pressure since the last sample the unit makes 3 extra transmissions.

Sleep mode:

Units are put into a “hibernate” mode for shipping and storing. In hibernate mode no transmissions are made.

Note: Please be aware that the TMS10 will make three transmissions when the battery is connected (this is used in production to check that the units are working).

FCC/RFi Test Unit TMS10:

Sample Number: S0518

t_3 = is random between 0 seconds and 1.7 seconds.