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## TrimTrac Application Note 4 – 'Position/Status Report Format'

Below is a quick break down of a typical position report message within an SMS received from a TrimTrac. It is a quick guide, please refer to the TrimTrac user manual on page 65 for a more in depth look.

Received Message:

>RTKP00011078F131737532900000000000+514001146+0005138842-0000800000;ID=00000000;\*5B<

>RTKP - Header, P indicates it a positional report

0001 - Message sequence number (each message has an individual sequential number)

1 - Trigger type (Motion in this case)

078 - Battery level (85% in this case)

F - Battery change Flag (F=False, T=True)

1317 - GPS week number (counted from midnight, Saturday Jan 5th 1980)

375329 – GPS seconds into week (counted from midnight Saturday night)

0 - GPS Status code (in this case \*3D GPS fix)

0 - GSM Status code (in this case Network available)

0 - Position Age (in this case it's still a current position)

0 - HPA Status (a Vehicle adaptor specific flag, normal in this case)

0 - MPA Status (a Vehicle adaptor specific flag, normal in this case)

0 - LPA Status (a Vehicle adaptor specific flag, normal in this case)

0 - External power (a Vehicle adaptor specific flag, 'Bad' in this case because a VAM is not fitted)

00000 - Reserved for future use.

The following will only be included in a Position message, if the message begins with >RTKS then all the following up to unit ID is not included

+514001146 – Latitude in decimal degrees (+51.4001146 degrees)

+0005138842 - Longitude in decimal degrees (+000.5138842 degrees)

-00008 - Altitude reference to MSL in Feet (-8 ft)

000 - Speed in MPH (0 MPH, i.e. stationary)

000 - Heading, relative to True North (000 degrees, unit is stationary from speed reading).

ID=00000000 – Unit ID

5B< - Checksum (XOR of all hex representation of ASCII characters from > to \*)