

Protocol

MESSAGE STOP

h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h
0	0	BAT	VEL	T	LATITUDE								LONGITUDE									

MESSAGE START

h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h
0	1	BAT	VEL	T	LATITUDE								LONGITUDE									

MESSAGE MOVE

h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h
0	2	BAT	VEL	T	LATITUDE								LONGITUDE									

MESSAGE KEEP ALIVE

h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h
0	A	BAT	VEL	T	LATITUDE								LONGITUDE									

Respective messages in case the device cannot lock the satellites to obtain the coordinates

h	h	h	h	h	h	h	h
E	0	BAT	0	0	T		

h	h	h	h	h	h	h	h
E	1	BAT	0	0	T		

h	h	h	h	h	h	h	h
E	2	BAT	0	0	T		

BAT (uint8): Battery voltage (see example)

E.g. 0x20 = 32 -> 32/10 = 3.2 V

VEL (uint8) Speed in Km / h

Es 0x14 = 20 Km / h

T (int8): Temperature expressed in degrees

Latitude (float): (+) N (-) S

Longitude (float): (+) E (-) W

h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h
ST		BAT		VEL		T		LATITUDE						LONGITUDE								

STATUS			
Bit	Description	Value	
0-3	Message Type	0	STOP
		1	START
		2	MOVE
		A	KEEP ALIVE
		E	INIT APP
		F	START APP
4	Device position	0	NORMAL
		1	Overtuned
5-7	Firmware Version	0	Ver 0
		1	Ver 1
		2	Ver 2
		3	Ver 3
		4	Ver 4
		5	Ver 5
		6	Ver 6
		7	Ver 7

Eg ST = 3A -> KeepAlive Message - Overtuned Device - Firmware Version 1

Parameter setting Motion sensor

Downlink message

05 00 00 00 00 00 XX default: 05 00 00 00 00 00 0 0A

XX = threshold (5-50) - Default = 10

Overtuning management

When the device is powered, the overturning function is deactivated and will activate after the first keepalive message (between 06:00 UTC and 08:00 UTC). After activation, if a rollover occurs, the device changes state and will maintain it until next keepalive.