

PT-100 PROTOCOL



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Telematics | IOT and Industrial IOT | Electric Vehicle Solutions | Smart Parking Solutions | Smart City Solutions

SL#	Version	Developed By	Tested By	Prepared By	Approved By	Date
1	1.1_PT100_ATL_0.1	Mr. Narsa Ram	Mr. Vijith Nair	Mr. Narsa Ram	Mr. Vijith Nair	07/09/2017

Protocol Description

The protocol is having the following fields:

Sl.No.	Content	Discription
1	ATL	Protocol signatureL
2	L	Data Type: L=Live Data, H=History Data
3	866104026698764	IMEI number of the device
4	N	Panic Indication: N=no panic, P=Panic
5	111116	DATE (DDMMYY Format)
6	085531	TIME (HHMMSS Format)
7	A	A - VALID, V - INVALID Data
8	2845.123456	Latitude Value in DMS format
9	N	N/S - Latitude Direction (N - North, S -South)
10	7789.123456	077.123456 - Longitude Value in Degrees
11	E	E/W - Longitude Direction (E - East, W - West)
12	000.0	00.0 - GPS Speed in KMPH
13	GPS	GPS - GPS Packet, GSM - Packet, INV - Invalid packet.
14	4180	4180 - Battery Voltage in Milli Volt
15	404	404 - Country Code(3 digit)
16	11	11 - MNC (Mobile Network Code)
17	00159	00159 - LAC (Location Area Code)
18	064753	064753 - CID (Cell ID)
19	@	@ - End of Protocol

Example:-

(A) With GPS data

```
ATL,L,866104026698764,N,111116,085531,A,2845.123456,N,7789.123456,E,000.0,GPS,4180,404,11,00159,064753@
```

(B) With Invalid data

```
ATL,L,866104026697980,N,230517,073138,V,000.000000,N,000.000000,E,000.0,IN,4191,404,11,01034,001491@
```

(C) With GSM data

```
ATL,L,866104026698764,N,111116,085531,A,2845.123456,N,7789.123456,E,000.0,GSM,4180,404,11,00159,064753@
```

(D) History packets Pattern: When there is a large number of history packets in the memory of the device, Device send each time five packets in one packet. This process of sending history packets start as soon as the device gets communication with a remote server.

For Example:-

ATL,L,866104026698764,N,111116,085531,A,2845.123456,N,7789.123456,E,000.0,GPS,4180,404,11,00159,064753@N,111116,090031,A,2845.123456,N,7789.123456,E,000.0,GPS,4180,404,11,00159,064753@N,111116,090531,V,2845.123456,N,7789.123456,E,000.0,GPS,4180,404,11,00159,064753@N,111116,091031,V,2845.123456,N,7789.123456,E,000.0,GSM,4180,404,11,00159,064753@N,111116,091031,A,2845.123456,N,7789.123456,E,000.0,GPS,4180,404,11,00159,064753@

Detail of above received packet:-

1st Data : This indicate start and end of first data.

2nd Data : This indicate start and end of second data.

3rd Data : This indicate start and end of third data.

4th Data : This indicate start and end of fourth data.

5th Data : This indicate start and end of fifth data.