

AW-100

PROTOCOL



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

GPRS PROTOCOL FOR AW100

Manufactured by:
Atlanta Systems Pvt. Ltd.
M-135, 2nd Floor, Opposite
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New Delhi -110001

Version	1.1_AW100_DIPPER_1.1
Developed By	Mr. Narsa Ram
Tested By	Mr. Vijith Nair
Prepared By	Mr. Narsa Ram
Approved By	Mr. Vipin Kumar
Release Date	07/11/2018

PROTOCOL DESCRIPTION

The device will send data in ASCII format over TCP-IP

The protocol is having the following fields:

Sl.No.	Content	Discription
1	ATL	Protocol signature
2	L	Data Type: L=Live Data, H=History Data
3	866104026698764	IMEI number of the device
4	N	Temper Alert Indication: N=Normal, T=Tempered, R= Removal
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	7789.123456 – Longitude Value in DMS format
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,I**NV**,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)WITH Temper Alert data

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

(E)WITH Panic Alert data

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

(F)History packets Pattern: The device will send memory data as bulk packets containing 1 to 5 packets depending on the availability of the memory data. The maximum packet size would be having 5 data.

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.

GPRS COMMANDING

The format for GPRS command would be

\$MSG,Command&

SL#	Field	Description
1	\$MSG	Fixed header of command
2	Command	Command to device
3	&	End field

Sample Command

GPRS command to check Version is

\$MSG,VERSION<6906>&

Note1:- Refer User manual for all set of commands

Note2:- Panic alert is available in AT100/PT100 models only.

Note3:- Tempering alert is available in AW100 model only. Tempering indicates the cover open alert in working device.