GPS TRAINER

MODEL - GPS100

This trainer has been designed with a view to provide practical and experimental knowledge of GPS.

SPECIFICATIONS

1.	Channel	:	12
2.	Frequency	:	L1 C/A
3.	Position Accuracy	:	25 meters CEP without SA
4.	Velocity Accuracy	:	0.1 meters/second, without SA
5.	Time accuracy	:	Synchronized to GPS time
6.	Update rate	:	1/sec
7.	Receiver sensitivity	:	-175 dB
8.	Input Voltage	:	+5VDC
9.	Current (Avg)	:	180mA
10.	Serial Communication	:	4800 Baud (default)
11.	Protocol Messenger	:	NMEAO183V2.2, SIRf binary & RTCMSC
12.	Speed	:	104V2.0 type 1,2,9 515 meters/sec. (max.)
13.	Acceleration	:	4g. maximum
14.	Jerk	:	20 meters/sec-3 max
15.	Maximum Altitude	:	1800 meters
16.	Time to First Fix	:	45 / 38/ 8 Sec

EXPERIMENTS

1. Understanding Concept of GPS.
2. Establishing Link between GPS Satellite & GPS Trainer.
3. Measurement of Latitude & Longitude.
4. To Study Effect of DOP.
5. To study HDOP & VDOP.
6. Analysis of NMEA 0183 Protocols.
7. Analysis of Elevation; Azimuth, SNR.
8. Study of PRN code.
9. Study of Common NMEA Sentence Protocol like, GPGGA, GPGLL, GPGSA, GPGSV, GPRMC, GPVTG

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