



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	:	NMEA0183V2.2, 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

Sigma Trainers and Kits
E-113, Jai Ambe Nagar,
Near Udgam School,
Thaltej,
AHMEDABAD - 380054.
INDIA.

Phone(O): +91-79-26852427/ 26850829
Phone(F): +91-79-26767512/ 26767648
Fax : +91-79-26840290/ 26840290
Mobile : +91-9824001168
Email : sales@sigmatrainers.com
: sigmatrainers@sify.com
Web : www.sigmatrainers.com

Dealer:-