

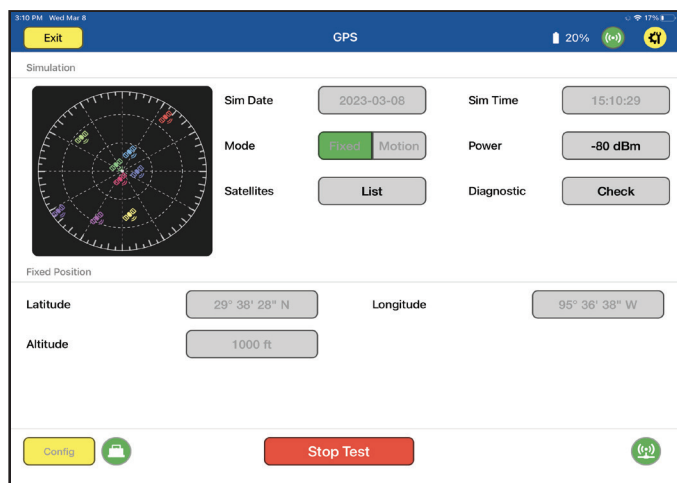
ARTS-7000 GPS Simulator

The ARTS-7000 GPS Simulator generates a full constellation GPS signal to exercise an aircraft GPS receiver. It enables ADS-B Out testing and can create both a fixed position or motion path while in the hangar.



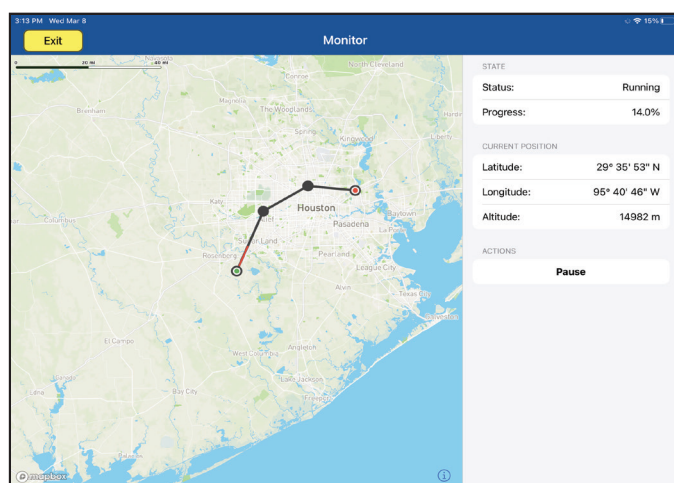
- ▶ GPS Simulator with Fixed & Motion Modes
- ▶ Full-constellation GPS output
- ▶ Highly intuitive Route Creation
- ▶ Over-the-air updates to Almanac
- ▶ GPS Coupler included

GPS FIXED MODE



Select up to 10 active satellites to generate a time and position signal. Easily modify each satellite's health.

GPS MOTION MODE



Create aircraft routes on an interactive map via GPS waypoints.

ARTS-7000 GPS SPECIFICATIONS

Attribute	Values	Resolution
RF Output Level		
Output Power Range (Direct)	-100 to -145 dBm typical	1 dB
Output Power Range (Coupler)	-120 to -165 dBm typical	1 dB
Spurious	<-20 dBc over 20 MHz BW <-70 dBc out of band	
Harmonics	<-140 dBc	
Master Oscillator		
10 MHz	Yes	
Temperature Stability	+/- 75 ppb (0.075 ppm)	
GPS Signals	L1	
Static Simulation	Yes	
Dynamic Simulation	Yes	
Number of Channels	10	
Satellite Health States	GOOD / BAD	
Almanac update	Manual or Automatic file update	
Maximum Relative Velocity	+/-1166 kts	
Maximum Relative Acceleration	40 m/s ²	
Maximum Relative Jerk	1000 m/s ³	
Maximum Altitude	164,000 ft	
Pseudo Range Accuracy	0.5 m RMS	
Pseudo Range Rate Accuracy	Time accuracy 5 ns RMS wrt reference clock	

ARTS-7000 (FULL SYSTEM)

