



Portable Radar Simulator (PRS)



- 2-18 GHz Coverage
- Portable for rapid deployment
- 2 variants - single or multi-emitter transmission
- Programmable over a wide range of emitter parameters
- Free space radiating up to 5Km
- Squadron level test & training asset

General Description

The **PRS** provides a cost-effective, transportable alternative test and training solution for helicopters, ships and low & slow transport aircraft applications. The **PRS** is available in 2 variants depending on level of test complexity desired.

PRS 1: A programmable system capable of single threat transmission which utilises the COTS technology featured in the PTS8000 flight line confidence tester.

PRS 2: A programmable system capable of complex multi-threat transmission which utilises the COTS technology featured in the RSS8000/CP.

Both of the above systems include a Portable Antenna System and 100W Amplifier module to generate the required RF power levels to enable short-to-medium range free space radiation at various platforms for training or for validation & verification applications.

Platform tracking is achieved by a "man in the loop" method using x4 magnification optical sight which together with the respective high gain antennas are mounted on a ruggedised tripod featuring a spring damped pan & tilt head for smooth tracking. Both system types are programmed via an intuitive PC graphical user interface. The user selects the threat and "fires" at the system under test to generate the appropriate response from the EW system. The use of unclassified "training PFM" threat libraries, which are matched to the threats generated by the PRS, can provide added realism to the training scenario.

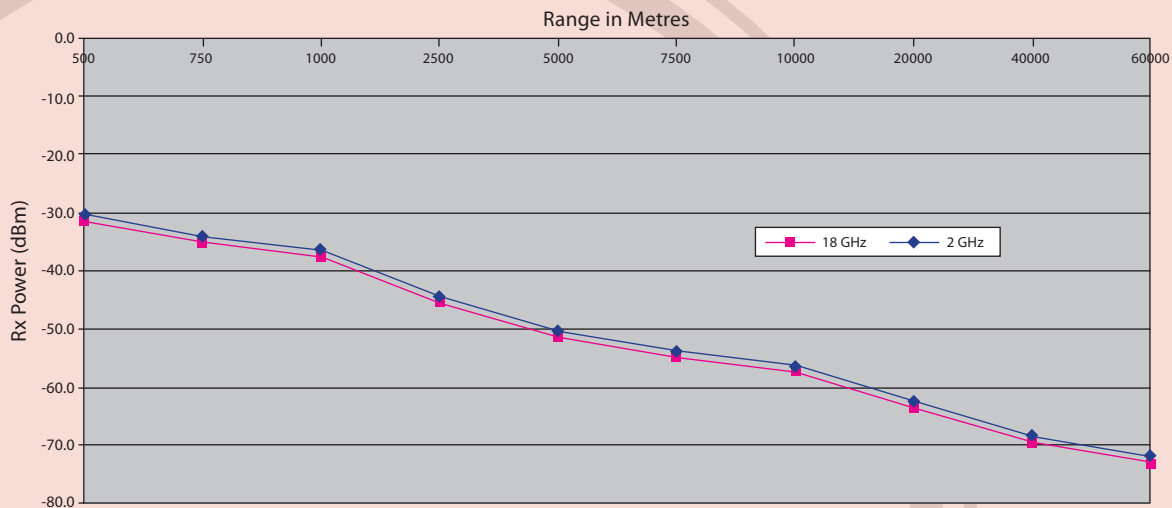


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The **PRS** system covers 2 - 18 GHz and comprises the following modules:

- Ruggedised transit case which houses the 100W amplifier & RF source
- Ruggedised tripod with antenna mounting flange and x4 magnification optical sight
- 2x high gain reflector antenna units covering 2 - 6 GHz and 6 - 18 GHz
- RF cables and connectors
- Operator and Maintenance manuals

Generic System Specifications	
Frequency coverage	2 - 18 GHz
Amplifier coverage	100 w 2 - 6 GHz and 6-18 GHz
Antenna coverage	700mm Reflector antenna 2-6 GHz (+20dBi) 700mm Reflector antenna 6-18 GHz (+30dBi)
Typical effective distance	Minimum 5 Km assuming receiver sensitivity is -50dBm
System ERP	2.0 - 6 GHz 60dBm 6.0 - 18 GHz 80dBm
Power Supply	240 VAC
For PRS 1 or PRS 2 variant specifications, refer to the individual PTS8000 or RSS8000/CP technical datasheets	



Description	EWST Part Number	NATO Stock Number (NSN)
PRS 1 (PTS 8000 based system) Portable Antenna System with 100W amplifier	47963-0001	5840-99-668-1431
PRS 2 (RSS 8000/CP based system) Portable Antenna System with 100W amplifier	47964-0001	5840-99-258-9254
Portable Antenna System with 100W amplifier (no RF Source)	47887-0001	5985-99-613-6639

Information Subject to Change Without Notice.