

Simulators

Field Target Simulator (decoy) TSC-1

Description:

The TSC-1 is a field target simulator for transmitting of RF pulse signals simulating ground radars with preset parameters. This simulator can be also used as a deceptive radar target. The TSC-1 kit contains a tripod-based stand, driving unit, control box and antenna system. Configuration arrangement enables transport in small trucks (e.g. LAND ROVER). Simulator's antenna beam characteristic corresponds to actual radars of review type. The antenna rotation speed and transmitting RF pulse signal parameters could be preset.

Basic Tactical and Technical Data:

Frequency range	3 GHz or 10 GHz
Transmitted pulse power	more than 5 KW
Pulse repetition frequency	from 50 Hz to 6 kHz
Pulse width	0.1 μ s to 10 μ s
Antenna speed	3-24 rpm
Power supply	230V/50Hz, or 24V/5A battery
Ambient operating temperature	-10°C to +50°C
Ambient limiting temperature	-25°C to + 60°C



Schoolroom Simulator of Radar Targets USC-1

Description:

The USC-1 is a schoolroom simulator of radar targets. It is determined for:

- verification of correct function (diagnostics) of a Small Radar Searcher SRS-4M at the user,
- training intentions of the SRS-4M user.

The USC-1 generates high frequency pulses emulating ground (also board) radars which parameters could be preset. This simulator consists of 4 microwave generators, 2 antenna systems, an electronic control unit and console as well. The values of emitted carrier frequencies correspond to 5 frequency slave ranges of the SRS-4M. The parameters of simulated radars could be preset in a wide range. At the same time 2 independent radars could be simulated.

Basic Tactical and Technical Data:

Frequency range:	1.7 GHz; 2.5 GHz; 5.8 GHz; 10 GHz and 14 GHz
Repetition frequency of modulating pulses	10 Hz to 9.99 kHz
Length of modulating pulses	0.1 μ s to 9.9 μ s
Pulse number at exposure	1 to 99
Antenna rotation rate	0.1 s to 99.9 s
Power supply: AC power supply,	230V/50Hz
Limiting operating temperature	0°C to +50°C
Limiting ambient temperature	-25°C to +60°C



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