



Features:

- Complete hardware and software setup to demonstrate Radar concepts
- Signals study on Software / Oscilloscope with the help of test points given on trainer
- Object Counter provided on trainer
- Real time fan RPM measurements and vibrations measurements with the help of tuning forks
- Tripod stand provided for height and level matching
- LED Indication for Doppler Echo Signal

Scope of Learning

- Study of the working of a Doppler Radar
- Study of determine the Velocity of the object moving in the Radar range
- Study of understand the principle of Doppler Radar of Time and Frequency measurement with the help of a moving pendulum
- Study of an Alarm System by using a Radar
- Study of the Object Counting with the help of Radar
- Study of the detection of vibration of different Tuning Forks
- Determine the Rotation Per Minute (RPM) of a moving object (Fan)
- Study of the effect of different types of materials on Radar reception or detection

Technical Specifications:

- Transmitter Frequency: 10 Ghz
- Output Power: 10mW (approximate)
- Operating Voltage: 8V-8.6V
- Antenna: Horn
- Antenna Gain: 16dB (Min)
- Sensitivity: -50 to -70dBm

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- IF Output: Audio range
- Power Supply: 230V \pm 10%, 50 Hz
- Alarm: Onboard detected signal indication
- About Software
- Oscilloscope: Real time/Storage mode with FFT analysis
- Display: Voltage: Vpp
- Speed: Km/hr, Miles/hr, m/s, rpm
- Frequency: Hz & kHz
- Time domain window: Display the Doppler Frequency in Time domain
Frequency domain window: Display the Doppler Frequency in Frequency domain
- Included Accessories:
 - Trainer Board, Audio Cable for PC Line In input, Din connector cable (5 Pin), Mains Cord, Tripod Stand,
 - Fan Stand, Fan, Sliding Platform, Horn Antenna, Trans-receiver Unit, Software CD, Pendulum, stand for moving the pendulum, Operation manual, Tuning forks -2Pcs, Different objects- 3Pcs

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