

Transmitter power: 2kW (33 dBW)

Antenna gain: 18 dBW

ERP power: 126 kW (51 dBW)

Directional characteristics of antenna:

Width of beam in degrees at the half-power point: Horizontal 2.5°, Vertical 45°

Orientation in horizontal plane: Capable of full 360° positioning (rotatable)

Orientation in vertical plane: 3dB points are approximately 45° and 0°.

Emission characteristics:

Polarization: Vertical

Interrogation Modes

Pulse-Pair (P1, P3) Spacing

Mode-1 (Military) $3 \pm 0.1 \text{ usec}$

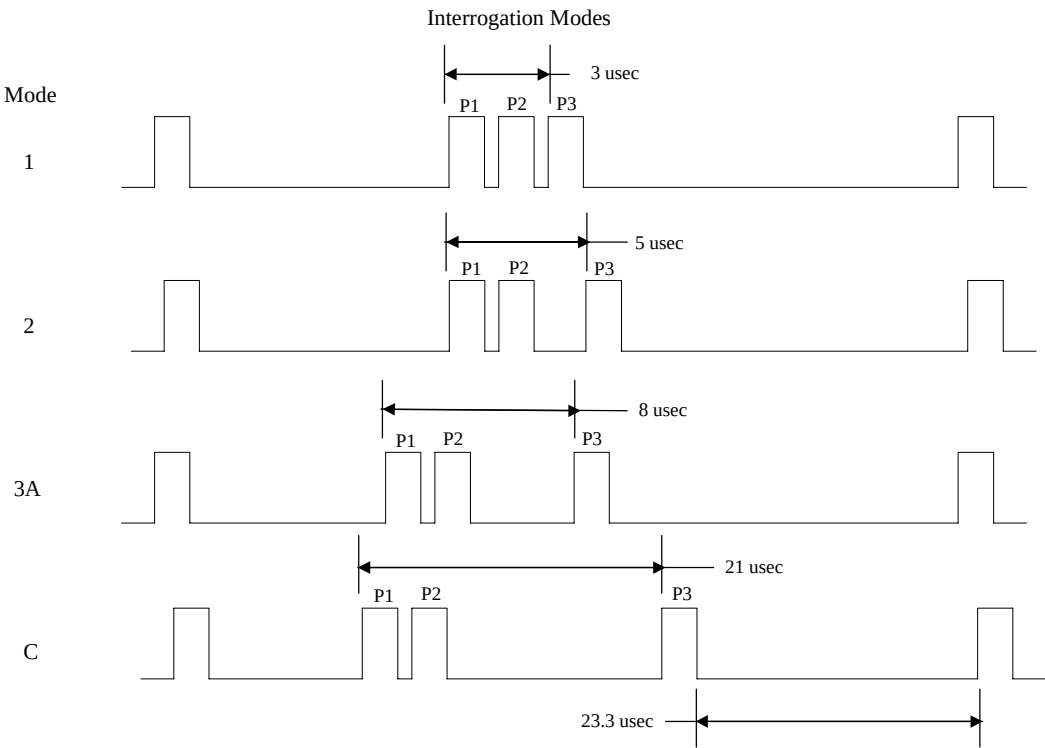
Mode-2 (Military) $5 \pm 0.2 \text{ usec}$

Mode-3A (Common Identity) $8 \pm 0.2 \text{ usec}$

Mode-C (Common Altitude) $21 \pm 0.2 \text{ usec}$

Pulse Width $0.8 \pm 0.1 \text{ usec}$

SLS Pulse (P2) $2 \pm 0.15 \text{ usec}$



Modes of operation: Mode-1, Mode-2, Mode-3A, Mode-C

Pulse Characteristics: PRF 215-225 Hz Staggered