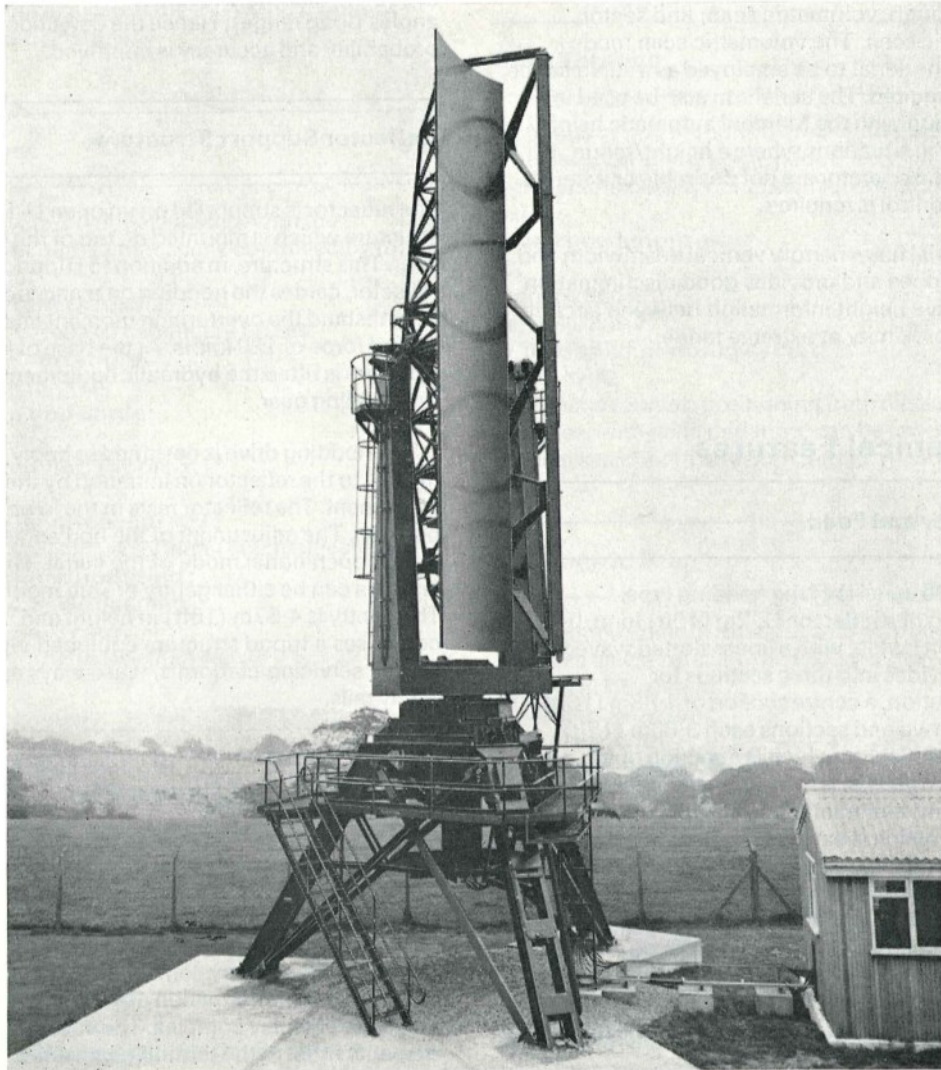


Marconi Radar Data Sheet A7

Static 10cm S-band Single Parabolic Heightfinder Aerial

Reflector size 40 feet by 7 feet
Type S1006—Single Cylindrical Parabolic



Beamwidth : vertical 0.6° ; horizontal 3.7°
(measured at 3dB points)

Side lobes at least 20dB down on main beam

Maximum vertical operational angle 30°

Elevation scan angle:

3° from datum.

Number of steps per elevation:

20.

Minimum azimuth sector angle:

10°.

Maximum azimuth sector angle:

90°.

Data Summary

Power supplies:

380 to 400 or 415V ($\pm 6\%$), 50 or 60Hz ($\pm 2\frac{1}{2}\%$).

Maximum vertical operational angle:

30°.

Beamwidth:

vertical 0.6° at half-power points, horizontal 3.7° at half-power points.

Side lobes:

at least 20dB down on main lobe.

Gain:

40.5dB.

Maximum wind force:

70 knots operational, 120 knots survival.

Aerial mounting:

three-legged 4.57m (15ft) gantry, or stub.

Dimensions**Height:**

19m (62ft) incl. gantry. Gantry based on 4.8m (15ft 6in approx.) radius.

Environment**Temperature:**

Operational : 0 to +50°C.

Survival : -40 to +65°C.

Relative humidity:

Operational : 95% at 25°C.

Survival : 95% at 40°C.

Pressure:

Operational : 750mb.

Survival : 420mb.

The information given herein is subject to confirmation at the time of ordering.

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