



Semi-mobile H.F. Wireless Station (350 W) Type HS 27/HR 28

TYPE HS 27/HR 28 provides an entirely self-contained semi-mobile communications station. The latest techniques in i.s.b, s.s.b, and f.s.k telegraph communications are embodied to give a station with the fullest operational facilities.

Features

- Choice of five operational services.
- Reliable communication by ground-wave up to 70 miles (112 kilometres) over average rolling countryside.
- Rapid, simple operation by the use of colour-coded knobs.
- Remote control of equipment on all services is possible.
- Full protection against interference.
- Ease of maintenance and servicing ensured.
- Suitable for operation over a wide range of climatic conditions.

EQUIPMENT

The main equipment is designed for installation in a 1-ton truck or transportable

shelter. The power generator, when used, can form a separate trailer. The applications of the equipment are not confined to that of a self-contained station. In association with other similar station-working with similar aerial systems, a comprehensive h.f. network or series of point-to-point communication links can be set up.

The complete mobile station comprises the following units:

- (a) Transmitter Type HS 27 with power supply unit, aerial matching unit and test load.
- (b) Reflectometer directional coupler and trip unit ratiometer.
- (c) Transmitter test meter.
- (d) Receiver Type HR 28 with aerial matching unit (for local or remote application), acceptor unit and aerial change-over unit.
- (e) Operator's control unit.
- (f) Remote control unit.
- (g) Teleprinter.
- (h) Morse key, handset and loudspeaker.
- (i) L.T power distribution board.
- (j) Aerial and mast gear.
- (k) Cables and connectors.
- (l) Power generator in trailer (optional).

Data Summary

GENERAL

Services:

- C.W on/off telegraphy (A1)
- F.S.K telegraphy (F1)
- S.S.B telephony (A3a)
- I.S.B telephony (A3b)
- D.S.B telephony (A3)

Dimensions:

Height	Width	Depth	Weight
<i>Transmitter Type HS 27 (excluding power unit)</i>			
4 ft 6½ in. (138 cm)	2 ft (61 cm)	2 ft 5 in. (74 cm)	520 lb (236 kg)
<i>Receiver Type HR 28</i>			
3 ft 11¼ in. (121 cm)	2 ft (61 cm)	2 ft 1¼ in. (66 cm)	360 lb (164 kg)

TRANSMITTER TYPE HS 27

Frequency range: 2-21·999 Mc/s.

Power output:

Service	Power output	
	2-15 Mc/s	15-21·999 Mc/s
A1	350 W	300 W
F1	250 W	215 W
A3a	350 W	300 W
A3b	350 W	300 W
A3	100 W	85 W

Power supplies: 200-250 V ($\pm 6\%$) or 100-125 V ($\pm 6\%$), 45-55 or 55-65 c/s single-phase a.c.

Power consumption: 1·5 kVA.

RECEIVER TYPE HR 28

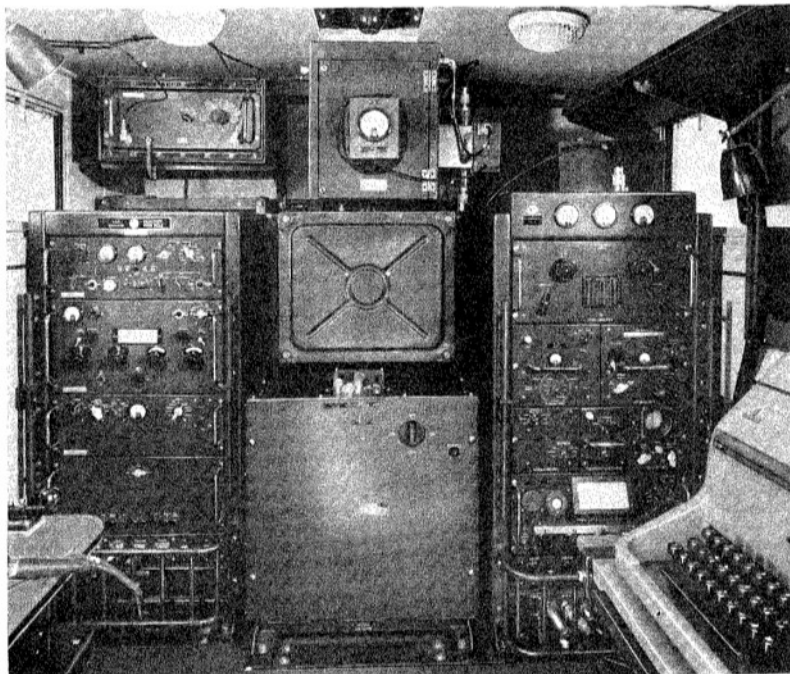
Frequency range: 2·1-27 Mc/s continuously variable.

Frequency stability: 80 c/s max. variation per °C and ± 100 c/s for $\pm 6\%$ mains voltage variation. (A.F.C. reduces residual mix-tune to <20 c/s (telephony) or 10% total shift (f.s.k).)

Noise factor: 8 dB max. from 2·1-10 Mc/s. 12 dB max. from 10 to 27 Mc/s.

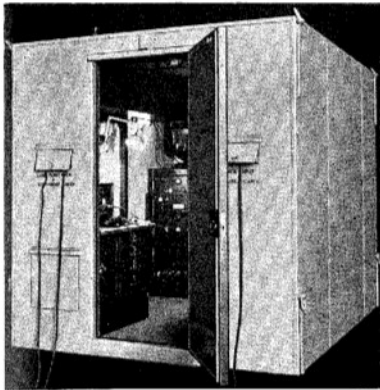
Power supplies: 100-125 or 200-250 V ($\pm 6\%$), 45-65 c/s, single-phase a.c.

Power consumption: 270 VA.



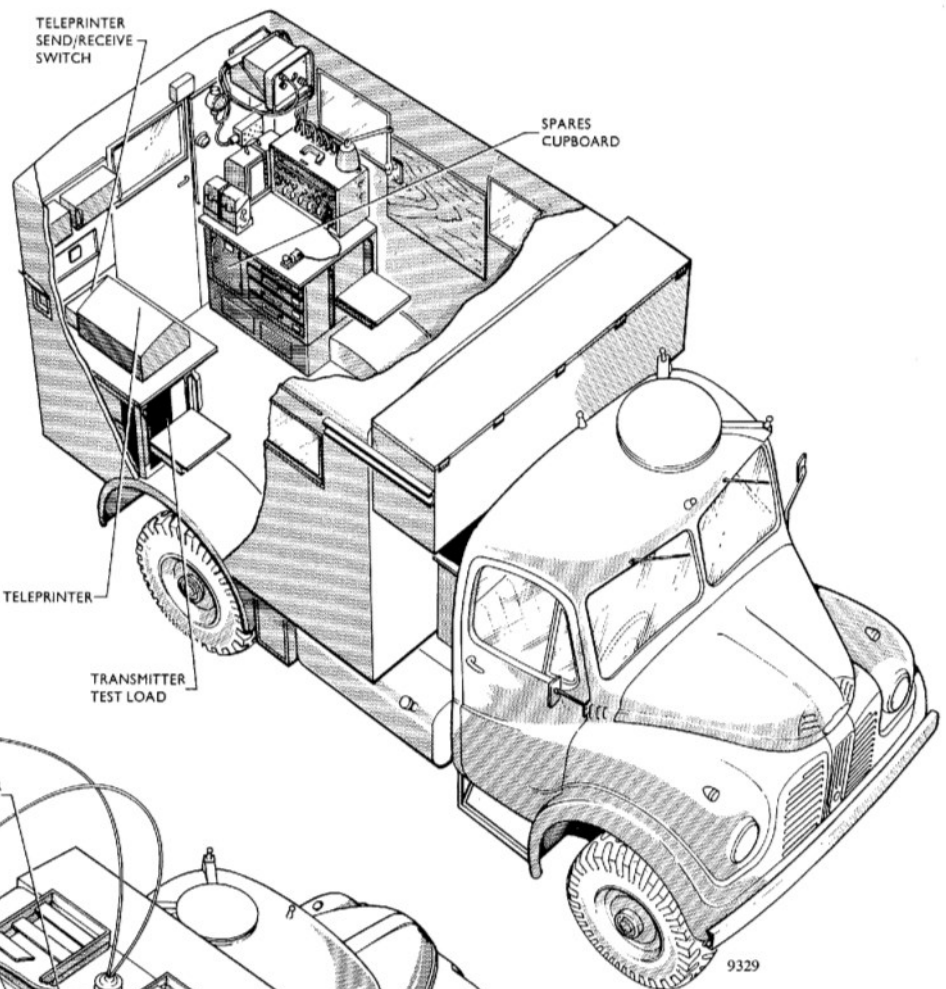
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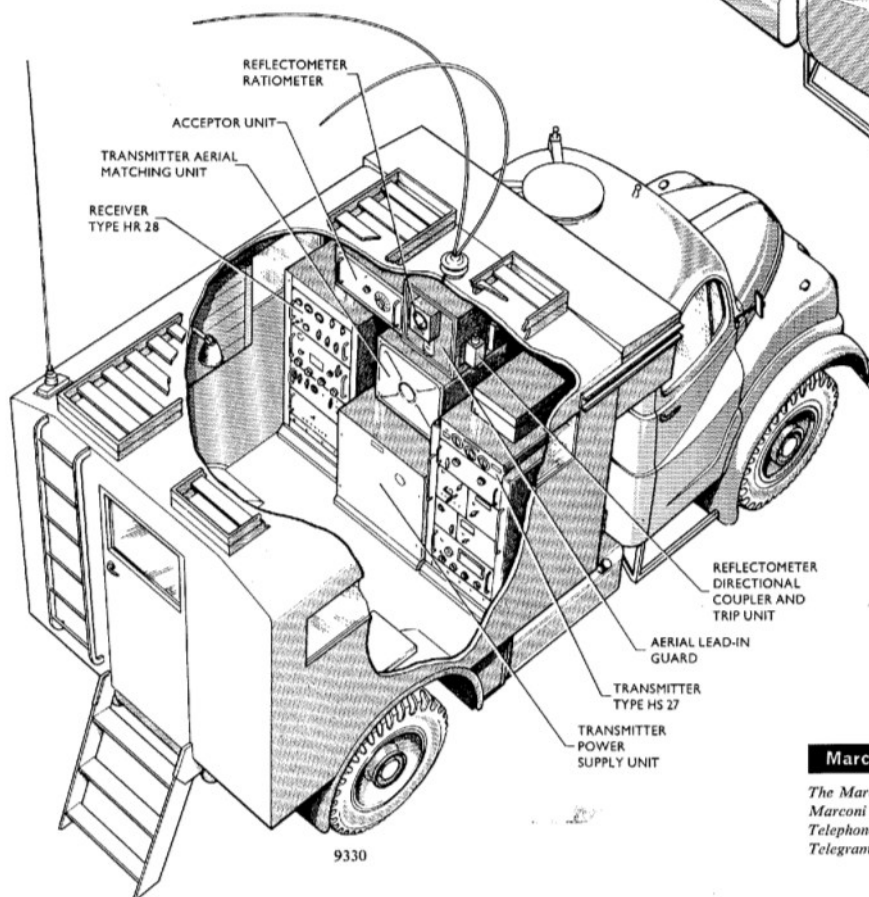
Type HS 27/HR 28 H.F. Radio Station
installed in a shelter.

9331



Type HS 27/HR 28
H.F. Radio Station
in a vehicle.

9329



9330

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