TELECOMMUNICATIONS F 750

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STATION. RADIO. 1198

TECHNICAL HANDBOOK - DATA SUMMARY

PAKT	NUMBER
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74.10	A 51460
4116	A DIGOU

PURPOSE

The Station, Radio, 1198 is a portable low power c.w., b.f. station for limited use. R.T. communication is possible with model 119RT which incorporates a built in modulator.

DESCRIPTION

The station consists of four separate units housed in from d.c. mains. The transmitter is crystal control-Issue 1, 29 May 84

diecast aluminium cases comprising:-

(a) Transmitter

Z1/ZA 51207

(b) Receiver

Z1/ZA 51208

(c) Power supply unit

Z1/ZA 51204

(d) Case, spare parts, filled 21/ZA 51206

The equipment is designed mainly for c.w. operation and can be operated from 110-240V a.c. supply mains or from a 6V accumulator; it can not be operated

Distribution - Clasd 335. Code Special

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led and employs two stages; a crystal oscillator/
dcubler and a class C power amplifier. The receiver
is a conventional 6 valve superheterodyne comprising an r.f. amplifier stage, mixer, i.f. amplifier, det/ avc, b.f.o. and audio output stage. The dual power supply unit supplies both transmitter and receiver. It incorporates transmit-receive changeover switching and also has facilities for charging the station accumulator at about 1A. A non-synchronous vibrator is brought into circuit when the unit is switched to 6V d.c.

PHYSICAL DATA

	Weight	He i ght	Width	Depth
Transmitter	10 lb 7 oz	5.3/8 in.	10.7/8 in.	6.3/4 in.
Receiver	14.1/4 lb	6.3/4 in.	10.7/8 in.	7.1/8 in.
Power Supply Unit	23.1/2 lb	7.3/8 in.	10.7/8 in.	7.3/8 in.

Case, Spare 11.1/2 lb 7.3/8 in. 10.7/8 in. 7.3/8 in. Parts, filled

The various units are waterproof only when case covers are fitted.

ELECTRICAL DATA Frequency ranges

Transmitter			Receiver		
Band	Ŗ	inge		Band	Range
1 2 3 4 5 6			/s /s /s /s	1 2 3 4 5	0.5 - 1.05Mc/s 1.05 - 2.2Mc/s 2.2 - 4.7Mc/s 4.7 - 10.0Mc/s 10.0 - 20.0Mc/s

Transmitter:	Power output:	10-15W depending on frequency		
Receiver:	Sensitivity:	0.5-2.3Mc/s approx 90μV)		
(for an	output of 1mW	2.3-20Mc/s approx 20μV) into a 2000Ω load)		
The second second	Bandwidth:	7.5kc/s at 20dB down		

Antenna systems

- (a) 50 ft. reel antenna (b) 100 ft wire antenna

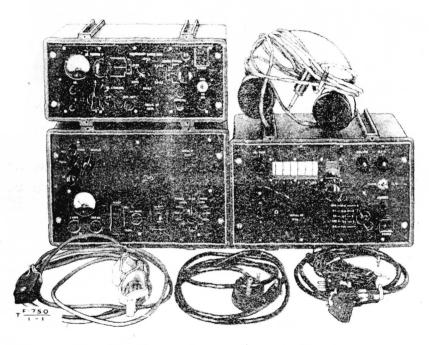


Fig 1 - General view of equipment

A half wave antenna should be erected whenever poss- FOWER REGAL REMENTS ible. Valves 110-240V a.e. 50c/s continuous coverage Receiver Transmitter 6V d.c. R.F. Amo CV4018 Crystal Osc CV4014 (2) (CV 131) (CV138). Power consumption: 100-240V a.c. Receiva: 100VA approx CV4014 Mixer Transmit: 1307A approx (CV 138) P.A. CV3990 (1) (max) Oscillator CV4014 Modulator (CV138) EL 70 6V d. c. (model 119RT) Receive: 6.8A EF 72 (1) I.F. Amp CV4016 Transmit: 15.0A key (CV131) down (max) Det/Avc CV1092 6.8A key up B.F.O. CV4014 (CV 138) ASSOCIATED FUBLICATIONS Output CV4014 C.E.S. W.O. Code No 42630 (CV138) (Service edition) Voltage 95 125 stabilizer Z1/ZA 28449

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