TELECOMMUNICATIONS F 760

## WIRELESS STATION MK 121 AND MK 122

## TECHNICAL HANDBOOK - DATA SUMMARY

PURPOSE							Depth	Width	Height	Weight
Portable, low-power, c.w., h.f. transmitter-receiver for limited use. R.T. communication is possible with the W.S. Mk 122 using a separate modulator unit. DESCRIPTION					45W, 110V, driven, No	sets, a.c., hand/pedal o 1, Mk 1 (in- parging set, Mk 1)	10.3/8 in.	11.3/4 in.	16 in.	38 1b
The set is an amplitude modulated transmitter-receiver and operates from either a power pack, vibrator pack or a hand/pedal driven generator. The receiver is a three valve superheterodyne designed for c.w. reception. The transmitter is a class C amplifier driven by a crystal controlled oscillator. Crystals of fundamental frequency, half or one third of required fre-					Spares box FREQUENCY W.S. Mk 12	* · ·		13 in.		8 1b
quency may be used.						-		to 20Mc	46	
PHYSICAL DATA				9	Node l	Range	Ва	nd	Range	l .
					A	2.9 to 6Mc/s		1 2	.5 to 5	ic/s
	Depth	Width	Height	Weight	В	4.4 to 9Mc/s		2	5 to 10	Mc/s
Transmitter-receiver	3.3/8 in.	13 in.	9 in.	12.1/4 1b		6.6 to 14Mc/	s	3	10 to 20	
Supply units, vibra-	3.1/8	6.5/8	8.3/4	7.1/4	D	8 to 17Mc/s				
tory, No 14, 6V	in.	in.	in.	ib	E	9.4 to 20Mc/	s			

Intermediate frequency: 470kc/s

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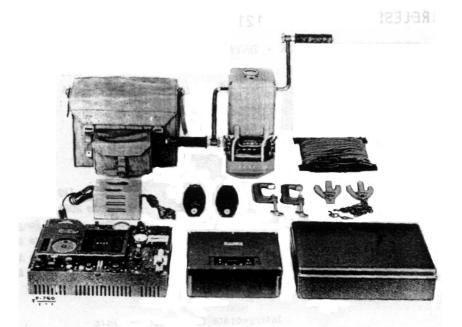


Fig 1 - Complete station (MK 122)

## ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

## RESTRICTED

TELECOMMUNICATIONS F 760

NE 48

PERFORMANCE

Power output:

Transmitter: 10-13W

Receiver sensitivity: 1-54V for 20dB signal-to-noise

ratio

POWER REQUIREMENTS AND CONSUMPTION

Power pack: For a.c. mains only, 40-400c/s, 100-250V in 10V steps

Power consumption:-

Receive: 34W

Transmit: 22-65W

Supply units, vibratory, No 14, 6V

Power consumption:

Receive: 5A

3.5A key up Transmit:

10A key down

Generating sets, a.c. 45W 110V, hand/pedal driven, No 1. Mk 1

Supplies up to 45W at 110V a.c. 200-250c/s, when operated at 75 rev/min

AERIAL SYSTEMS

(a) 50 ft reel aerial

(b) 100 ft wire aerial

VALVES

Transmitter: Type: CV 3889 CV 3990

Qtv 1

Receiver: Type: CV 3888 CV 1833 CV 3883 Qty:

EME 8c /847

END