

SUMMARY OF DATA

PURPOSE

A short range low power portable F.M. transmitter-receiver (Army Wireless Set No. 31) for voice communication.

FREQUENCY RANGE

40 to 48 MHz in 41 channels 200 kHz apart.

BRIEF DESCRIPTION

The set occupies the upper section of a weatherproof metal case. The lower section contains the dry battery. The receiver is a double superheterodyne. The first i.f. is 4.3 MHz the second i.f. is 2.515 MHz a.f.c. is incorporated. The transmitter consists of a F.M. reaction modulator, master oscillator doubler, crystal oscillator and power amplifier. The crystal oscillator may also be used as calibration check.

MAJOR UNIT AND PHYSICAL DATA

ZA31385 Wireless Set No. 31.

<u>Height</u>	<u>Width</u>	<u>Depth</u>	<u>Weight</u>
17"	11"	5½"	23½ lb

PERFORMANCE

Power Output: Transmitter 0.5 W, Receiver 2 mW
 Receiver Sensitivity: 3µV for 20 dB Signal/noise ratio
 Range: 3 to 5 miles

POWER REQUIREMENTS AND CONSUMPTION

The power supply is from a single battery (Army Ref. Y3/WB4134) which provides both h.t. and l.t. with a working life of 25 hours. The consumption is as follows:-

Transmit:	45 mA at 150 V	Receiver:	25 mA at 90 V
	25 mA at 90 V		0.3 A at 4.5 V
	0.5 A at 4.5 V		

AERIAL SYSTEM

A vertical whip aerial:-

One in two sections giving a 2 ft 9 in. rod or
 One in eight sections giving a 10 ft 8 in. rod.

HANDBOOK

BR 1772 E.M.E.R. Telcon F369, F362, F364 and ZA33743

ESTABLISHMENT LIST

E1936

INSTALLATION SPECIFICATION

GENERAL VIEW OF EQUIPMENT