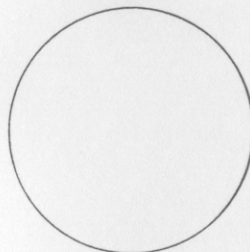


**Quartzlock**

model AE198

# INSTRUCTION MANUAL



## DARTINGTON FREQUENCY STANDARDS

MOOR ROAD, STAWERTON, DEVON TQ9 6PB ENGLAND □ Telephone (080426) 282 □ Telex 42928 A/B WETRAV G (Quartzlock)

## 198kHz ACTIVE LF ANTENNA

We will take good by repair or replacement  
device in conditions of the manufacture  
in order and speed, accidentally, also use  
provided

1. When such defects are caught in  
the order that if some from the  
goods were first inspected and

2. that an undetected repair or  
has been previously accepted and  
the "as is" guarantee the products  
cannot be used which form part of the  
the manufacture, but will pass on  
customer and full benefits we have  
in respect of products offered  
of a guarantee, and in respect  
of

**Dartington Frequency Standards**

**Moor Road  
Staverton**

**Devon TQ9 6PB**

**Tel: (080426) 282**

**Telex: 42687 STAVERTON G**

**Fax: (080426) 558**

QUARTZLOCK model AE198  
198kHz ACTIVE LF ANTENNA

GUARANTEE

We will make good by repair or replacement any defects in products of our manufacture not caused by wear and tear, accident, mis-use or neglect, provided

1. that such defects are brought to our notice not later than 12 months from the date the goods were first dispatched and
2. that no unauthorized repair or replacement has been previously carried out or attempted. We do not guarantee the products of other manufacturers which form part of the goods of our manufacture, but will pass on to our customer the full benefits we have received in respect of guarantees offered by such other manufacturers in respect of their goods.

This guarantee is given in lieu of any warranty implied by statute or otherwise, and our liability thereunder is expressly limited to the cost of the repair or replacement made by us or to our order.

Quartzlock Instruments reserve the right to alter and improve any design without notice.

# QUARTZLOCK model AE198

## 198kHz ACTIVE LF ANTENNA

## SPECIFICATION AE198

OPERATING FREQUENCY

198KHz

GAIN X10

20dB

OUTPUT  $Z_0$

50 $\Omega$  NOMINAL

OUTPUT CONNECTOR

BNC

SUPPLY

12V dc NOMINAL

SUPPLY CONNECTOR

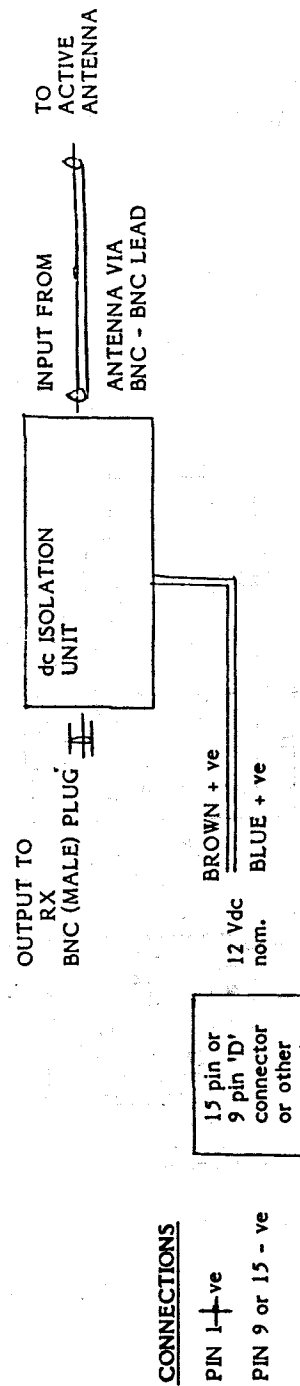
15 pin or 9

SIZE ANTENNA

43 dia x 325M

SIZE SUPPLY ISOLATION UNIT

25 x 25 x 50 (93) mm



## CONNECTIONS

PIN 1 +ve

PIN 9 or 15 - ve



# PARTS LIST - ACTIVE AERIAL

CIRCUIT REF	VALUE	QTY	DESCRIPTION	SUPPLIER	
R1	1M	1	RESISTORS CR 25 carb film	Rapid	CR25/value
R2	3K3	1	RESISTORS CR 25 carb film	Rapid	CR25/value
R3	220R	1	RESISTORS CR 25 carb film	Rapid	CR25/value
R4	560R	1	RESISTORS CR 25 carb film	Rapid	CR25/value
R5	22R	1	RESISTORS CR 25 carb film	Rapid	CR25/value
R6	220R	1	RESISTORS CR 25 carb film	Rapid	CR25/value
R7	330R	1	RESISTORS CR 25 carb film	Rapid	CR25/value
C1	5.5-60pF	1	CAPACITOR pre set var	Farnell	808 32659
C2	220pF	1	CAPACITOR Ceramic Plate	Farnell	104-894
C4	1.0 uF	1	CAPACITOR Tant 35v rad.	Rapid	11-0520
C3,C5	0.1uF	2	CAPACITOR Ceramic Plate	Farnell	146-232
C6	0.1uF	1	CAPACITOR polyester	Farnell	368 25104
Q1,Q2	ZTX 109	1	TRANSISTOR NPN	Farnell	ZTX 109
RFC	1mH H	2	CHOKE	Circuit	35-71105
L1		1	200KHZ Aerial Rod	AGW	2371
D1	5V6	1	DIODE zener BZVC5V6	Rapid	BZVC5V6
		1	BNC Bulkhd skl Coline	Farnell	143-780
		1	BRACKET	ALL-M	
		1	D' PLUG 15W	Farnell	ADA15P
		1	D' CASE ASSY	Farnell	148 641
P.C.B.		1	PCB double sided	ALL-M	
		1	BNC Circuit Box	Farnell	GE 80073
		1	12" LENGTH Polypropylene tube 1.5" diam		
		2	END CAPS Machined to size	OSMA	Access plug
		4	BBA Csk Screws .25" brass		
		1	Strain relief bush	HEYCO	5M-3
		1	2 Core cable 9" 5A		