



# AMPLIFIER DR/1

Technical Instructions

Item 3 (DR/1). July, 1938

## Volume Control

Type	Total Resistance	No. of Studs	Loss per Stud	Loss on Lowest Stud
P 10	100,000Ω	10	4 db. each stud	Infinite

## Supply Data

Stage	Valve	Automatic	Anode Current	Filaments	
		Grid Bias		Volts	Amps
		Volts negative	mA (approx)		
1	ACHL	2.4	3.2	4	1
2	ACP	5.6	7.5	4	1
3	ACP 1	30	20	4	1
		Total	30.7	3	

### High Tension Supply

H.T. + 1 (Stages 1 & 2) .. .. (approx) 275V rectified A.C.

H.T. + 2 (Output stage) .. .. (approx) 230V rectified A.C.

Low Tension Supply .. .. (approx) 6V (adjusted to 4V by series resistance)

## Working Voltage Gain

### Testing Conditions

Volume control set in position for maximum output.

Second stage of correction short-circuited (by connection from *D* to *E*).

Output loaded with 600 ohms

Level at input, at all test frequencies, adjusted to -14 db.

Gain at 1,000 c/s.	.. .. .	<b>36 ± 2 db.</b>	Relative to gain at 1,000 c/s
Gain at 50 c/s.	.. .. .	-11.5 ± 1 db.	
100 c/s.	.. .. .	-8.0 ± 1 db.	
250 c/s.	.. .. .	-4.2 ± 1 db.	
500 c/s.	.. .. .	-1.9 ± 1 db.	
2,000 c/s.	.. .. .	+2.0 ± 1 db.	
3,000 c/s.	.. .. .	+3.5 ± 1 db.	
4,000 c/s.	.. .. .	+4.7 ± 1 db.	
5,000 c/s.	.. .. .	+5.8 ± 1 db.	
6,000 c/s.	.. .. .	+6.7 ± 1 db.	
7,000 c/s.	.. .. .	+7.7 ± 1 db.	
8,000 c/s.	.. .. .	+8.5 ± 1 db.	