

DETERMINING THE LOSSES IN THE TRANSMISSION LINE

To measure the losses in your transmission line, use the following procedure:

- ☐ Insert the P-2 between the transmitter and the transmission line.
- ☐ Connect a dummy load to the antenna end of the coax (75 Ω dummy load should be used with 75 Ω coax, etc.)
- ☐ Tune the transmitter, being careful not to exceed the capabilities of the dummy load, and adjust the P-2 for a reading of 10 on the REL. POWER scale.
- ☐ Turn the transmitter off and remove the P-2 from between the transmitter and the line, BUT DO NOT DISTURB THE CONTROLS ON THE P-2.
- ☐ Insert the P-2 between the transmission line and the dummy load. Turn the transmitter on and note the reading on the REL. POWER scale on the P-2. DO NOT TOUCH THE CONTROLS ON THE P-2.
- ☐ Compare the reading against the following chart to determine the losses in the line. The chart will indicate the amount of loss in decibels and percent of the input power.

REL. POWER reading at end of transmission line.	LOSS in db.	LOSS in percent of input power.
8.91	0.5	10.9
7.95	1.0	20.5
7.08	1.5	29.2
6.30	2.0	37.0
5.0	3.0	50.0
3.98	4.0	60.2
3.16	5.0	68.4
2.51	6.0	75.0