Established 1981
Advanced Test Equipment Rentals
www.atecorp.com 800-404-ATEC (2832)

BIRD
ELECTRONIC
CORPORATION
Cleveland (Solon) Ohio 44139
30303 Aurora Road
Phone 216 – 248 · 1200
Quality Instruments for
RF Power Measurement

ADDITIONAL INSTRUCTIONS
APPLYING TO
MODEL 67 WATTMETER

This sheet suplements the Instruction Book for Series 6100 TERMALINE Wattmeter.

GENERAL
The Model 67 is a direct reading termination-type instrument for measuring RF power up to 500 watts (in three ranges) in 50-ohm coaxial systems in the frequency range of 30-500 MHz.

LOAD POWER RANGE
The Model 67 as a load or wattmeter has a maximum power rating of 500 watts with convection air cooling. This equipment should be operated in the horizontal position, and provided with adequate clearance of at least 6 inches all around and above the unit to permit free air circulation.

"QC" TYPE INPUT CONNECTOR
Normally supplied with Female N Connector. However this unit is designed with the Bird "QC" type (Quick-Change) input. This allows for the input connector to be changed in the field by merely removing four screws from the connector base plate, substituting connectors, and replacing screws.

METER
The meter has three scales of 0-25, 0-100, and 0-500 watts, respectively. Ten feet of meter cord is furnished, with a special connector on the end which fastens to the dc receptacle, located just above the RF connector on the front of the wattmeter. Wattmeter accuracy is ± 5% of the respective full scale values.

WATTMETER RANGES
Any one of the three ranges, 25, 100, or 500 watts, may be selected by inserting the operating crystal in the position marked with the desired range. Remove the crystal by grasping the knurled cap and pulling. False readings will result if more than one crystal is installed at one time. When inserting the crystal in the holder, push gently with a twisting motion until it is felt to stop, then add a slight additional pressure to make certain that it is bottomed. A spare crystal is supplied and fastened to the front of the instrument.

When using the Model 67 make certain that the crystal is in a range position sufficiencly high to handle the power being applied. If transmitted power level is doubtful, take first reading at 500 W level.

REPLACEMENT PARTS LIST
for
Model 67

PART NO.	DESCRIPTION
8180-098	Resistor-Voltmeter Set furnished with two (2) calibrated crystals.
2430-055	Clamping Band 24343 with #10-32 x 1-1/2 Fil. Hd. Mach. Screw.
8110-039	Seal, O-Ring.
5-030	Coolant, GE 10C - one gallon required.
8240-092-8	Meter Assembly - Includes Housing & Carrying Strap.
8240-121	Meter Housing only, Assembly.
8180-095-2	Meter & Cable Assembly.
2000-017	Meter only, Hickok Model 43HSR, 100 ua.
8180-021-1	Meter Cable Assembly only, 10 feet.
7500-147	Crystal Rectifier (Specify Model and Serial Number of Wattmeter)
4240-062	Female N, Quick Change Connector.