

E.M. ELECTRONICS LIMITED.

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September, 1971.

E.M. 103.

OPERATING INSTRUCTIONS.

SWR METER OPERATION:

- 1) Connect the E.M.103 Meter into the coaxial feeder of the antenna. RF IN to transmitter and RF OUT to aerial using PL259 connectors.
- 2) Turn SENSITIVITY control to minimum (fully anticlockwise).
- 3) Set function switch to FORWARD.
- 4) Switch on transmitter, tuned to desired frequency and operating loaded.
- 5) Adjust SENSITIVITY control for full scale deflection on the meter.
- 6) Set the function switch to REFLECTED. Meter will then indicate Standing-wave-Ratio.

Note: The instrument may be left in circuit indicating the reflected power. It is not designed for use on bands higher in frequency than 30 MHz.

POWER METER OPERATION:

- 1) As (1) above, except for accurate RF power measurement the output of the meter should be fed into a Dummy Load of the same impedance.
- 2) Set High/Low power switch to conform to power output of transmitter
i.e. 0-100 watts - low power.
0-1000 watts - high power.
- 3) Meter will then indicate RF output power of the transmitter. When used into an Aerial System, the indication will be of RF Power into the feeder.

