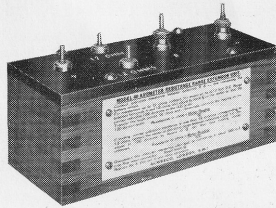


### RESISTANCE RANGE EXTENSION UNIT

To obtain even lower readings than those already provided upon the 1,000 ohms range of the instrument, a Resistance Range Extension Unit has been developed. This will enable either 12 ohms or 1.2 ohms to be read at full scale deflection upon the uniformly divided scale of the meter. The unit contains its own 1.5 V. cell.

To measure the value of an unknown resistance of 12 ohms or less, connect it between the terminals "R" and "—" of the unit.



This completes the circuit fed by the internal cell. The Avometer set to its 0-12 V. d.c. range should be connected to the "+" and "12 ohms" studs on the unit, and the "Q" knob upon the meter adjusted until the pointer reads full scale deflection. The leads should then be transferred to the "12 ohms" and "—" studs, the marked polarity being observed, and the pointer deflection read upon the 120 divisions scale. The value of the unknown is 1/10 of the pointer reading.

Should the resistance be under 1.2 ohms, as ascertained by the above test or by prior knowledge, it may be desirable to test on the 1.2 ohms range. Standardisation should be carried out by means of the "Q" knob as before, but with the meter leads connected across the "+" and "1.2 ohms" studs. The leads should then be transferred across the resistance under measurement, i.e., between studs "R" and "—". The value of the unknown is then 1/100 of the pointer indication.

Immediately tests are completed, disconnect the meter and the unknown resistance from the unit to avoid discharging the internal cell.

*Important.—After carrying out resistance tests with the unit, the "Q" knob on the instrument must be returned to its normal position in the panel.*

*It should be noted that this accessory contains a 1½ V. cell Ever-Ready type R1662. This cell should be examined periodically to ensure that it has not become discharged.*