



# HEAVY DUTY AVOMETER.

## INSTRUCTIONS FOR USE

IF NECESSARY, SET THE POINTER TO ZERO BY MEANS OF THE SCREW ON THE FACE OF THE PANEL.

FOR ALL NORMAL TESTS, THE SWITCH BETWEEN THE TERMINALS MUST BE AT "NORMAL."

SET THE MAIN SWITCH TO THE RANGE REQUIRED.

CURRENT AND VOLTAGE. IF IN DOUBT AS TO THE VALUE TO BE MEASURED, SET TO THE HIGHEST RANGE FIRST AND WORK DOWNWARDS, SHOULD THIS BE NECESSARY.

THE VOLTMETER RANGES ARE 1,000 OHMS PER VOLT ON D.C. AND 500 OHMS PER VOLT ON A.C. EXCEPT FOR THE 10V. A.C. RANGE WHICH IS 200 OHMS PER VOLT.

RESISTANCE. BEFORE CARRYING OUT TESTS, SET THE SWITCH TO THE APPROPRIATE RANGE, JOIN THE LEADS TOGETHER AND ADJUST THE POINTER POSITION TO ZERO OHMS BY MEANS OF THE "ADJUST  $\Omega$ " KNOB. TO TEST, CONNECT THE LEADS ACROSS THE RESISTANCE. WHEN NOT IN USE, DO NOT LEAVE THE SWITCH ON AN OHMS RANGE IN CASE THE LEADS TOUCH AND DISCHARGE THE INTERNAL CELL.

IMPORTANT. WHEN THE  $1\frac{1}{2}$ V. CELL IS DISCHARGED (SHOWN BY INABILITY TO COMPENSATE FOR THE CELL CONDITION OR BY THE POINTER DEFLECTION GRADUALLY FALLING) REMOVE THE CELL WITHOUT DELAY AND REPLACE BY ONE OF SIMILAR TYPE.

OVERLOAD CUT-OUT. IF THE MOVEMENT IS HEAVILY OVERLOADED THE CUT-OUT OPERATES AND BREAKS THE MAIN CIRCUIT THROUGH THE INSTRUMENT, A RED SPOT THEN APPEARING THROUGH THE SCALE PLATE.

BEFORE RE-SETTING BY TURNING THE "RESET" KNOB, DISCONNECT THE LEADS. CLEAR THE FAULT BEFORE RECONNECT'ING THE METER.

SPECIAL TESTS. EXTENSION OF A.C. CURRENT RANGES CAN BE MADE BY MEANS OF EXTERNAL TRANSFORMERS USED IN CONJUNCTION WITH THE 100mA A.C. RANGE.

D.C. CURRENT RANGES CAN BE EXTENDED BY MEANS OF 100mV SHUNTS. THE METER SHOULD BE USED ON ITS 10mA D.C. RANGE WITH THE TOP SWITCH SET AT "10mA D.C.=100mV." RETURN THE SWITCH TO "NORMAL" AFTER USE.

VARIABLE SENSITIVITY. THIS POSITION IS FOR USE WITH THE 1 OHM RESISTANCE RANGE EXTENSION UNIT ONLY: SEE INSTRUCTIONS ON UNIT.

ACCESSORIES FOR RANGE EXTENSION ARE AVAILABLE FROM THE COMPANY.

THE AUTOMATIC COIL WINDER  
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