



HALLTRON HALL EFFECT PROBES

Model HP - 316

SPECIFICATIONS

HALL OUTPUT (V_h) open circuit

$B = 10$ kilogauss

$I_c = 100$ Milliamperes 100 millivolts $\pm 25\%$

CONTROL CURRENT (I_c) nominal 100 milliamperes

OHMIC RESIDUAL (V_{ro})

$B @ 0$

$I_c = 100$ milliamperes < 0.5 millivolts, typical

INPUT RESISTANCE (R_{in}) approx 2 ohms

OUTPUT RESISTANCE (R_{out}) approx 1 ohms

TEMPERATURE COEFFICIENT OF V_h $-0.2\%/^{\circ}C$

LOAD RESISTANCE (R_L) 5 ohm, typical
for optimum linearity

LINEARITY ERROR, PERCENT OF $\pm 1\%$
FULL SCALE WITH OPTIMUM R_L 0 to 10 Kg

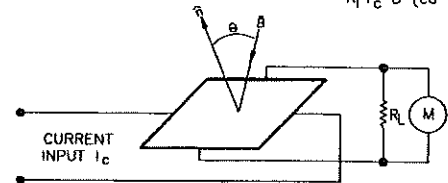
LEAD INSULATION PVC

LEAD COLOR CODE INPUT RED & BLACK
OUTPUT BLUE & YELLOW

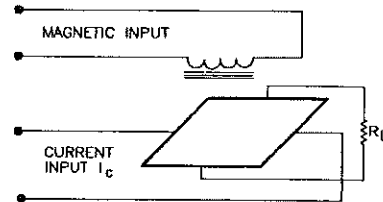
POLARITY: With positive current applied to the red lead and the Halltron positioned as shown in the illustration, a positive output will be observed on the blue lead.

HALLTRON MAGNETIC FIELD MEASUREMENT

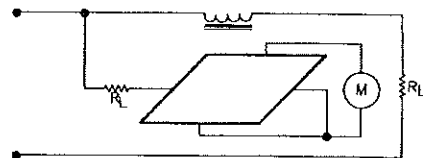
$$\text{OUTPUT} = K_1 I_c (\hat{n} \cdot \vec{B}) \text{ or } K_1 I_c B \text{ (} \cos = 0 \text{)}$$



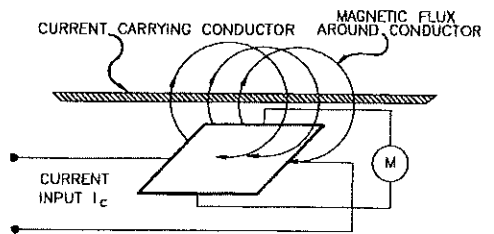
HALLTRON ELECTRONIC MULTIPLIER



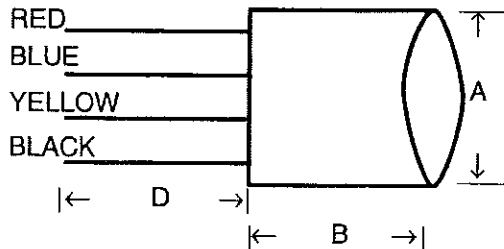
HALLTRON INSTANTANEOUS POWER METER



HALLTRON CLIP-ON TYPE AMMETER



DIMENSIONS



IN INCHES

A = 0.125

B = 0.250

D = .24

OHIO SEMITRONICS, INC.

4242 REYNOLDS DRIVE HILLIARD, OHIO 43026-1264
Phone: (614) 777-1005 FAX: (614) 777-4511
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