PRECISION HALL-EFFECT PROBES — MODEL HR

HALLTRON MAGNETIC FIELD PROBE

FEATURES
- High accuracy, low noise.

APPLICATIONS
- Magnetic field sensing applications.

MODEL SELECTION

HALL OUTPUT* ±25% (mV)	NOMINAL CONTROL CURRENT Ic (mA)	MAX. OHMIC RESIDUAL (mV)		NOMINAL INPUT RESISTANCE approx. (Ω)	NOMINAL OUTPUT RESISTANCE approx. (Ω)	DIMENSIONS (INCHES)					LEAD INSULATION MATERIAL	AWG	TEMP. COEFF. % OUTPUT PER ºC (typical)	MODEL NUMBER
		FIELD=0 Ic=10mA	FIELD=0 Ic=100mA			A	B	C	D	E				
350	350		0.15	1.5	1.5	0.625	0.375	0.035	6	0.250	PVC	32	-0.10	**HR36**
200	25	0.15		10.0	10.0	0.625	0.375	0.035	6	0.250	PVC	32	-0.25	**HR38**
500	200		0.50	5.0	4.0	0.200	0.250	0.028	6	0.250	Enamel**	34	-0.15	**HR66**
340	200		0.50	2.0	2.0	0.200	0.250	0.028	6	0.250	PVC	32	-0.10	**HR70**
700	100		2.00	9.0	6.0	0.200	0.250	0.028	6	0.250	Enamel**	34	-0.25	**HR72**
550	100	0.20		10.0	10.0	0.200	0.250	0.035	6	0.250	Enamel**	34	-0.25	**HR77**
75	100		0.50	1.5	1.5	0.200	0.250	0.028	6	0.250	Enamel**	34	-0.05	**HR120**
100	100		0.50	2.5	2.0	0.200	0.250	0.028	6	0.250	Enamel**	34	-0.15	**HR125A**
10	200		0.03	1.0	1.0	0.200	0.250	0.028	6	0.250	Enamel**	34	-0.005	**HR170**

* Output specified with field strength of 10kGauss and control current as listed in table.
** Magnet wire with enamel and/or polyurethane insulation may be used.
Other sizes and configurations are available. Contact factory for details.

SPECIFICATIONS

INPUT
Magnetic Field 10kGauss

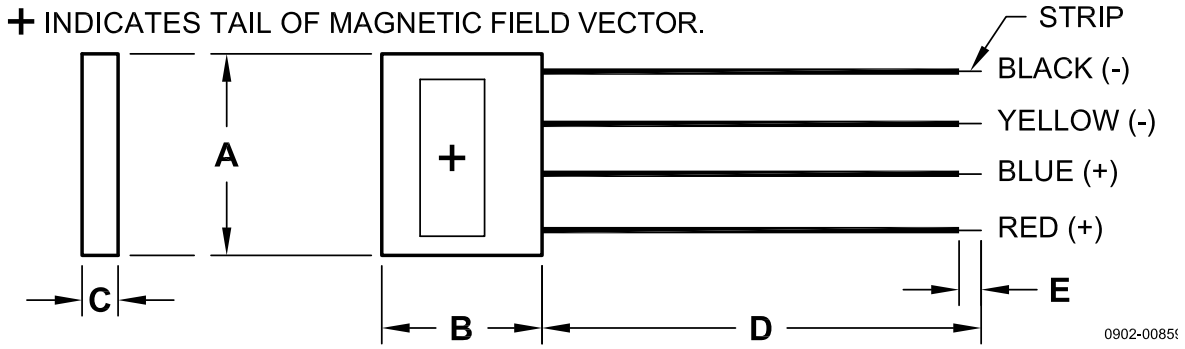
INSTRUMENT POWER
Control Current ..... See Table

OUTPUT
Voltage ..... See Table

TEMPERATURE
Operating Range ..... -65 to 85ºC
Coefficient ..... See Table

PHYSICAL
Input Leads ..... Red (+), Black (-)
Output Leads ..... Blue (+), Yellow (-)

DIMENSIONS



See table for length, width, and thickness dimensions.

NOTE: For HR36 and HR38 probes, the wire color order is (top to bottom) Blue, Red, Yellow, Black, where Red (+) and Black (-) are the input leads and Blue (+) and Yellow (-) are the output leads.

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