MODEL HR

HALLTRON MAGNETIC FIELD PROBE

FEATURES

With high accuracy and low noise, the HR series Hall-Effect Probes are designed into end-user applications where a reliable measurement of magnetic field strength is a requirement. When a specified control current is applied to the probe, the listed output reflects a field strength of 10kGauss.



APPLICATIONS

Our HR series probes have been manufactured for 50 years and are used as a key system component in a diverse array of industry projects. Applications include medical devices, cryogenics, and military aerospace, as well as many industry and university research projects with a requirement for measuring a fixed or changing magnetic field.

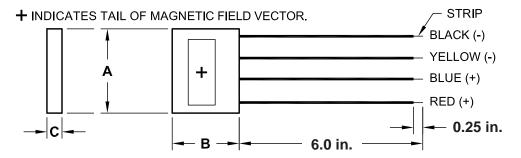
MODEL SELECTION

MODEL NUMBER	OUTPUT B=10kG (mV, ±25%)	CONTROL CURRENT Ic (mA)	OHMIC RESIDUAL (mV)		TEMPERATURE COEFFICIENT	DIMENSIONS (INCHES)			LEAD WIRES
			B=0 Ic=10mA	B=0 Ic=100mA	(%/ºC, typical)	А	В	С	(AWG)
HR36	1225	350		<±0.15	-0.10	0.375	0.50	0.035	32
HR38	200	25	<±0.15		-0.25	0.375	0.63	0.035	32
HR66	500	200		<±0.50	-0.20	0.250	0.20	0.028	34
HR70	340	200		<±0.50	-0.10	0.250	0.20	0.028	32
HR72	700	100, max		<±2.0	-0.25	0.250	0.20	0.025	34
HR77	550	100	<±0.20		-0.25	0.250	0.20	0.028	34
HR88	400	300		<±1.4	-0.15	0.375	0.34	0.023	30
HR120	75	100		<±0.50	-0.05	0.250	0.20	0.028	34
HR125A	100	100		<±0.50	-0.05	0.250	0.20	0.028	34
HR170	20	200		<±0.03	-0.005	0.250	0.20	0.028	34

s Ic = control current (excitation current)

For full specifications on each model, visit our website at www.ohiosemitronics.com Other sizes and configurations are available. Consult factory for details.

DIMENSIONS



WIRE COLOR	SIGNAL			
Red	+	Control		
Black	-	Current		
Blue	+	Output		
Yellow	_	Output		

Dwg# 0902-00859-B Rev A (mod.)

See model selection 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. For HR88, both input leads are red and both output leads are green.