# PRECISION HALL-EFFECT PROBES *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

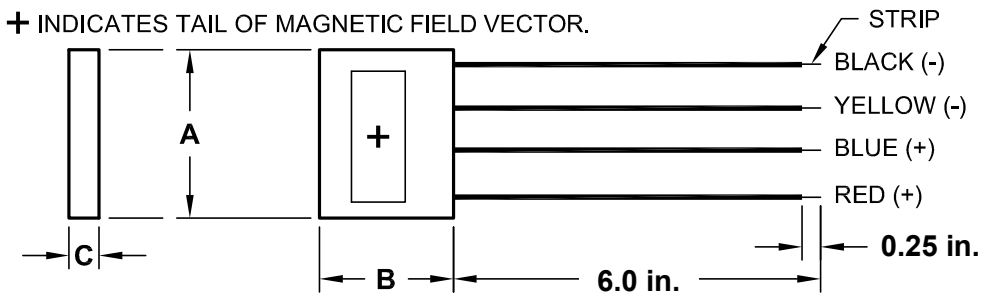
Our HR series probes have been manufactured for 50 years and are used as a key system component in a diverse array of industry projects. Applications include medical devices, cryogenics, and military aerospace, as well as many industry and university research projects with a requirement for measuring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

## MODEL SELECTION

| MODEL NUMBER | OUTPUT B=10kG (mV, ±25%) | CONTROL CURRENT Ic (mA) | OHMIC RESIDUAL (mV) | | TEMPERATURE COEFFICIENT (%/°C, typical) | DIMENSIONS (INCHES) | | | LEAD WIRES (AWG) |
|---|---|---|---|---|---|---|---|---|---|
| | | | B=0 Ic=10mA | B=0 Ic=100mA | | A | B | C | |
| **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 |
| **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 |

B = magnetic field strength, in Gauss  Ic = control current (excitation current)

## DIMENSIONS




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

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

See model selection table for length, width, and thickness dimensions.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