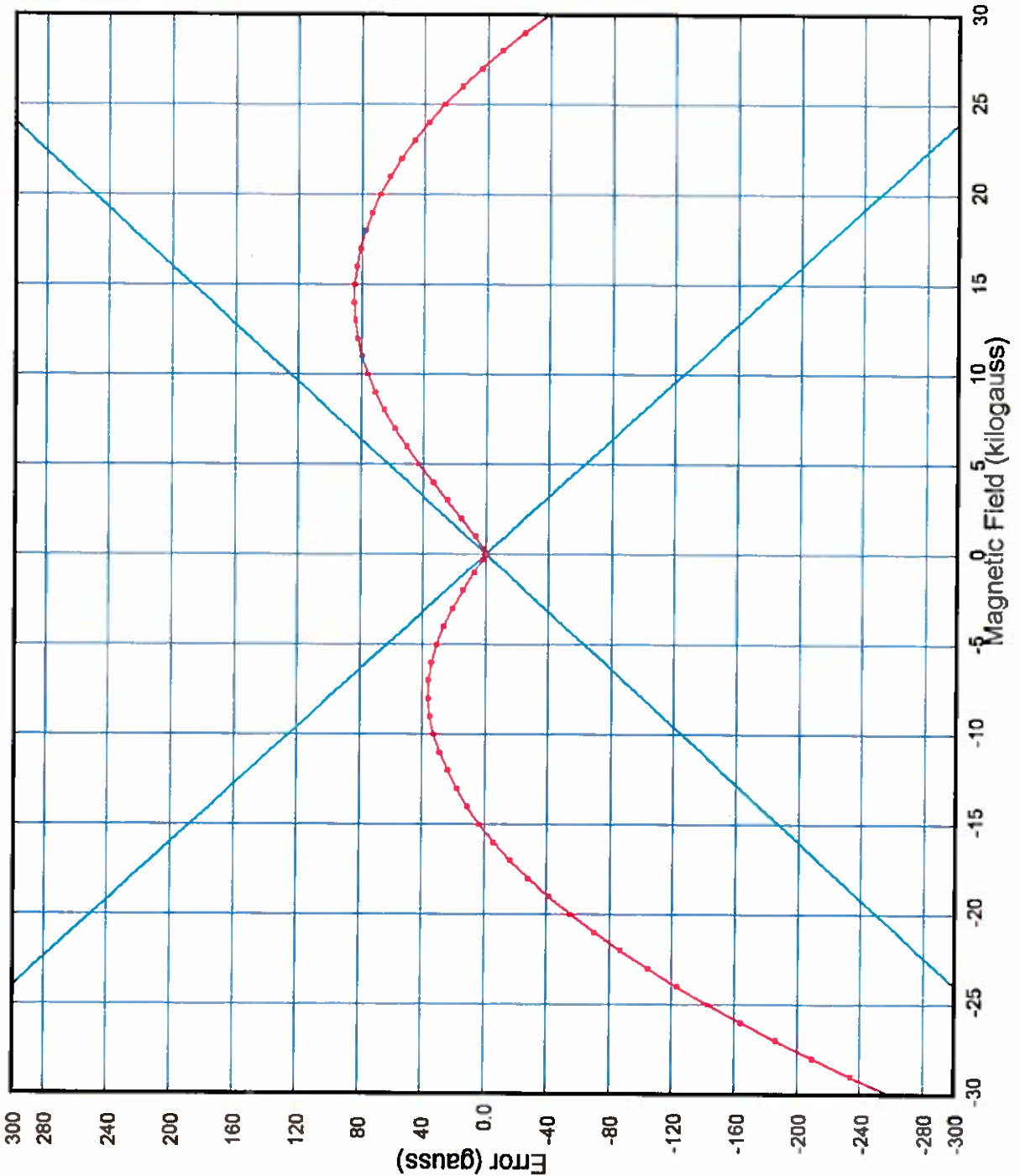# HALL GENERATOR ERROR PLOT

Sensor Model: XHGT-9060
Sensor Type: InAs Hall Generator
Mean Loaded Sensitivity: 8.650mV/kG
Zero Field Offset Voltage: 5.6µV

Serial Number: 55937
Linearizing Resistor: OPEN CIRCUIT
Ic = 100mA and T = 298K

I+ red
I- Blk
V+ blue
V- yellow

# HALL GENERATOR DATA

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Linearizing Resistor: OPEN CIRCUIT
Ic = 100mA and T = 298K

| Field (kG) | Output (mV) | Error (gauss) |
|---|---|---|
| -30.00 | -257.25316 | -259.751 |
| -29.00 | -248.82634 | -233.949 |
| -28.00 | -240.38915 | -209.347 |
| -27.00 | -231.94162 | -185.940 |
| -26.00 | -223.48380 | -163.723 |
| -25.00 | -215.01572 | -142.691 |
| -24.00 | -206.53744 | -122.839 |
| -23.00 | -198.04900 | -104.162 |
| -22.00 | -189.55043 | -86.655 |
| -21.00 | -181.04179 | -70.313 |
| -20.00 | -172.52312 | -55.130 |
| -19.00 | -163.99440 | -41.110 |
| -18.00 | -155.45544 | -28.273 |
| -17.00 | -146.90617 | -16.628 |
| -16.00 | -138.34765 | -6.052 |
| -15.00 | -129.77906 | 3.359 |
| -14.00 | -121.19662 | 11.170 |
| -13.00 | -112.60288 | 17.674 |
| -12.00 | -104.00324 | 23.495 |
| -11.00 | -95.39915 | 28.803 |
| -10.00 | -86.78266 | 32.677 |
| -9.00 | -78.15355 | 35.093 |
| -8.00 | -69.51372 | 36.268 |
| -7.00 | -60.86147 | 36.008 |
| -6.00 | -52.19637 | 34.262 |
| -5.00 | -43.51933 | 31.136 |
| -4.00 | -34.83131 | 26.741 |
| -3.00 | -26.13259 | 21.109 |
| -2.00 | -17.42483 | 14.431 |
| -1.00 | -8.71424 | 7.426 |
| -0.30 | -2.61185 | 1.948 |
| -0.05 | -0.43503 | 0.292 |
| 0.00 | 0.00000 | 0.000 |
| 0.05 | 0.43497 | 0.285 |
| 0.30 | 2.60974 | 1.704 |
| 1.00 | 8.71080 | 7.028 |
| 2.00 | 17.43747 | 15.893 |
| 3.00 | 26.16513 | 24.870 |
| 4.00 | 34.89410 | 34.000 |
| 5.00 | 43.62068 | 42.853 |
| 6.00 | 52.34115 | 50.999 |
| 7.00 | 61.05614 | 58.514 |
| 8.00 | 69.76506 | 65.325 |
| 9.00 | 78.46535 | 71.139 |
| 10.00 | 87.15654 | 75.900 |
| 11.00 | 95.83904 | 79.658 |
| 12.00 | 104.51201 | 82.314 |
| 13.00 | 113.17648 | 83.986 |
| 14.00 | 121.83297 | 84.737 |
| 15.00 | 130.48019 | 84.415 |
| 16.00 | 139.11832 | 83.043 |
| 17.00 | 147.74881 | 80.787 |
| 18.00 | 156.37084 | 77.554 |
| 19.00 | 164.98422 | 73.320 |
| 20.00 | 173.58904 | 68.098 |
| 21.00 | 182.18540 | 61.896 |
| 22.00 | 190.77327 | 54.714 |
| 23.00 | 199.35265 | 46.549 |
| 24.00 | 207.92349 | 37.397 |
| 25.00 | 216.48577 | 27.257 |
| 26.00 | 225.03947 | 16.124 |
| 27.00 | 233.58456 | 3.996 |
| 28.00 | 242.12101 | -9.131 |
| 29.00 | 250.64880 | -23.260 |
| 30.00 | 259.16790 | -38.393 |

Notes:
* The error given is gauss MAGNITUDE (see enclosed explanation).