

## Calibration supplement for 3D Hall probe

Transducer Type	<b>F3A-03HM05D-S.1T-02T-2K5J</b>	S/N <b>HPFA30044420</b>
Data acquisition device	<b>NIDAQ XYZ</b>	S/N <b>01A55983,01BED793</b>

### Bx axis calibration coefficients

Range	K1	K2	K3	K4	K5	K6	K7
100 mT	-0.098	0.0000211	0.0041	-0.00133	0.704	0.39	57
500 mT	0	0	0	0	1	0	1
2 T	0.067	0.0001931	0.0033388	-0.00052	0.988583	0.39	57

### By axis calibration coefficients

Range	K1	K2	K3	K4	K5	K6	K7
100 mT	0.059	0.0000358	0.0017	0	0.703	0.39	57
500 mT	0	0	0	0	1	0	1
2 T	0.051	0.000187	0.0008482	0	0.993285	0.39	57

### Bz axis calibration coefficients

Range	K1	K2	K3	K4	K5	K6	K7
100 mT	-0.283	0.000034	0.0039	-0.00095	0.709	0.39	57
500 mT	0	0	0	0	1	0	1
2 T	0.049	0.0002063	0.003	0	0.997	0.39	57

### Annotation

K1	K2	K3	K4	K5	K6	K7
Offset	Nonlinearity	TC Sensitivity	TC Offset	Sensitivity	Temp. Offset	Temp. Gain

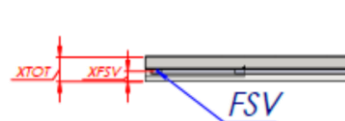
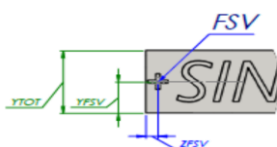
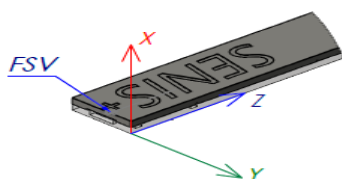
### Probe offsets

	Bx [mT]	By [mT]	Bz [mT]
100 mT	0.010	-0.010	-0.020
500 mT	0.000	0.000	0.000
2 T	-0.200	0.000	-0.200

### Probe dimensions

X <sub>FSV</sub> [mm]	Y <sub>FSV</sub> [mm]	Z <sub>FSV</sub> [mm]
0.48	1	0.3

X <sub>TOT</sub> [mm]	Y <sub>TOT</sub> [mm]
0.77	2.01



Conducted by: \_\_\_\_\_

Date: **12.10.2020.**