Post simulation data processing

TI Precision Labs – TI Magnetic Sense Simulator

Presented and prepared by Scott Bryson

TI Magnetic Sense Simulator (TIMSS)

Scott

TIMSS_DEMO

Function Linear

Save

Design

Parametric Sweep

Compare Design

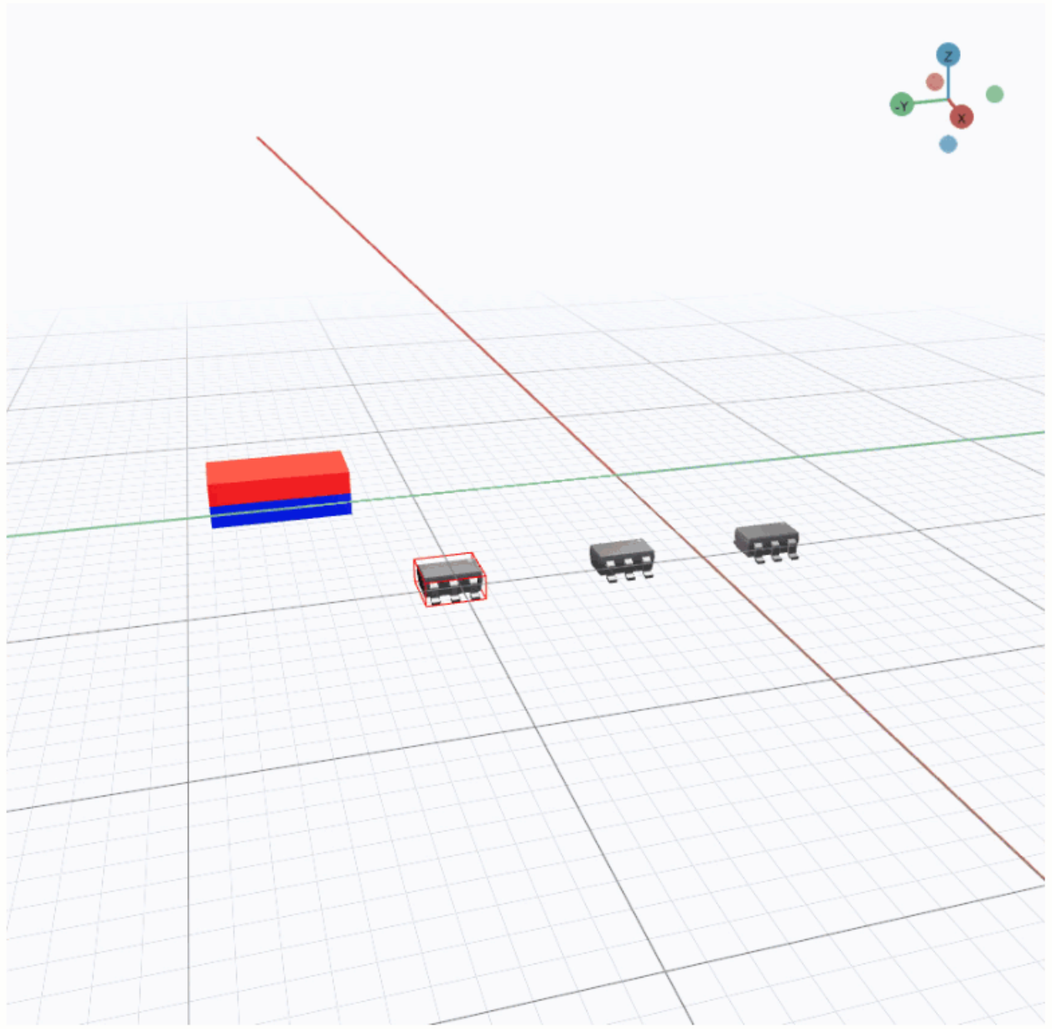
Edit Design

Output

Sensor Select Sensor 1 : TMAG5173-Q1

Input Parameters

3D Animation



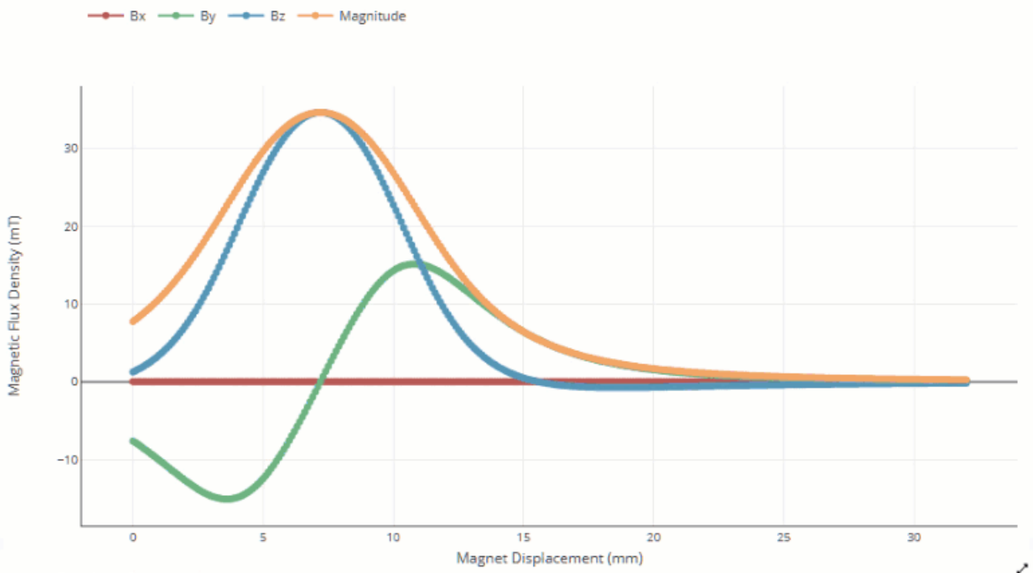
Play

Frame #

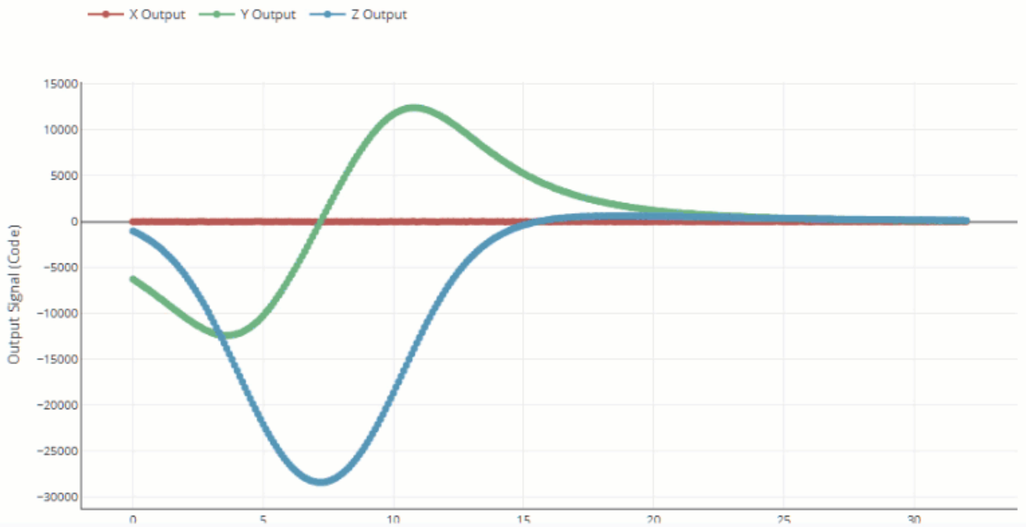
0 27 54 81 108 135 162 189 216 243 270 297

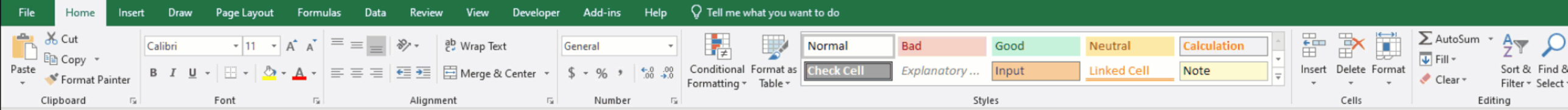
*This tool was designed using the MagPyLib API in Python. More information regarding this open source library and its methods can be found at the following publication source: https://authors.elsevier.com/sd/article/S2352711020300170

Magnet Field Density vs Distance



Device Output 1





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General Number

Conditional Formatting Format as Table

Normal Bad Good Neutral Calculation Check Cell Explanatory ... Input Linked Cell Note Styles

Insert Delete Format Cells

AutoSum Fill Clear Sort & Filter Find & Select Editing

A11 Magnet Motion Value (Angle or Displacement)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	Date	Tue Sep 10 2024 13:44:27 GMT-0500 (Central Daylight Time)																									
2	Simulatio	TIMSS_DEMO																									
3	Type of m	Linear																									
4	Start Posit	X : 0 ; Y : -16 ; Z : 1																									
5	Start Angl	X : 0 ; Y : 0 ; Z : 0																									
6	Simulatio	Step Size : 0.1																									
7	End Positi	Final X Position : 0;Final Y Position : 16;Final Z Position : 1																									
8	Sensor(s)	Sensor 1 : TMAG5173-Q1; Sensor 2 : TMAG5173-Q1; Sensor 3 : TMAG5173-Q1																									
9																											
10																											
11	Magnet M	Magnet X	Magnet Y	Magnet Z	Magnet X	Magnet Y	Magnet Z	Bx	By	Bz	Magnitud	Device Ou	Device Ou	Device Ou	Sensor #	Device	Part Numl	Package	Pin Count	Sensor Fa	Magnet Sh	Pole Coun	Magnet M	Grade	Remanen	Temperat	Temperat	Co
12	0	0	-16	1	0	0	0	0	-7.6499	1.243592	7.750319	8	-6266	-1032	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
13	0.1	0	-15.9	1	0	0	0	0	-7.87478	1.405209	7.999178	-10	-6462	-1150	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
14	0.2	0	-15.8	1	0	0	0	0	-8.10452	1.577346	8.256592	2	-6635	-1293	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
15	0.3	0	-15.7	1	0	0	0	0	-8.33897	1.760533	8.522789	-14	-6852	-1438	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
16	0.4	0	-15.6	1	0	0	0	0	-8.57796	1.955312	8.797991	17	-7038	-1612	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
17	0.5	0	-15.5	1	0	0	0	0	-8.82128	2.162236	9.082415	-10	-7232	-1774	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
18	0.6	0	-15.4	1	0	0	0	0	-9.06869	2.381868	9.37627	-4	-7417	-1939	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
19	0.7	0	-15.3	1	0	0	0	0	-9.3199	2.614776	9.679755	14	-7638	-2145	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
20	0.8	0	-15.2	1	0	0	0	0	-9.57459	2.861532	9.993059	8	-7830	-2350	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
21	0.9	0	-15.1	1	0	0	0	0	-9.83239	3.122712	10.31636	9	-8047	-2565	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
22	1	0	-15	1	0	0	0	0	-10.0929	3.398886	10.64981	-6	-8279	-2767	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
23	1.1	0	-14.9	1	0	0	0	0	-10.3556	3.69062	10.99355	-17	-8455	-3012	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
24	1.2	0	-14.8	1	0	0	0	0	-10.6199	3.998466	11.34772	-13	-8689	-3278	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
25	1.3	0	-14.7	1	0	0	0	0	-10.8854	4.322963	11.71239	1	-8913	-3543	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
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27	1.5	0	-14.5	1	0	0	0	0	-11.417	5.023951	12.47353	-19	-9334	-4112	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
28	1.6	0	-14.4	1	0	0	0	0	-11.6817	5.401388	12.87005	-15	-9566	-4426	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
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33	2.1	0	-13.9	1	0	0	0	0	-12.9594	7.573054	15.00992	-23	-10623	-6207	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
34	2.2	0	-13.8	1	0	0	0	0	-13.1988	8.066008	15.4683	6	-10805	-6605	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
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36	2.4	0	-13.6	1	0	0	0	0	-13.6523	9.111156	16.41338	-1	-11188	-7461	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	
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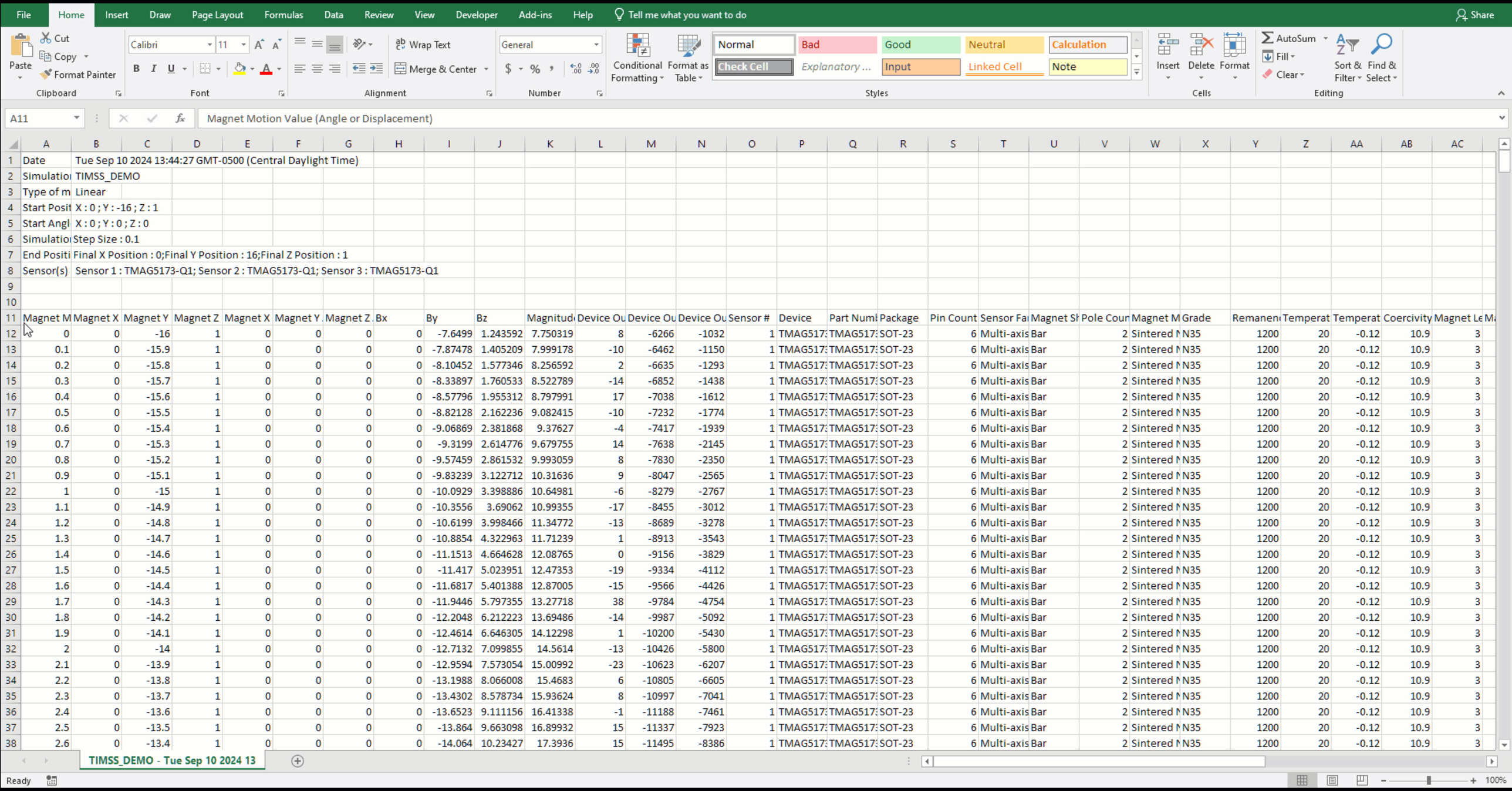
TIMSS_DEMO - Tue Sep 10 2024 13

Ready



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1	Date	Tue Sep 10 2024 13:44:27 GMT-0500 (Central Daylight Time)																											
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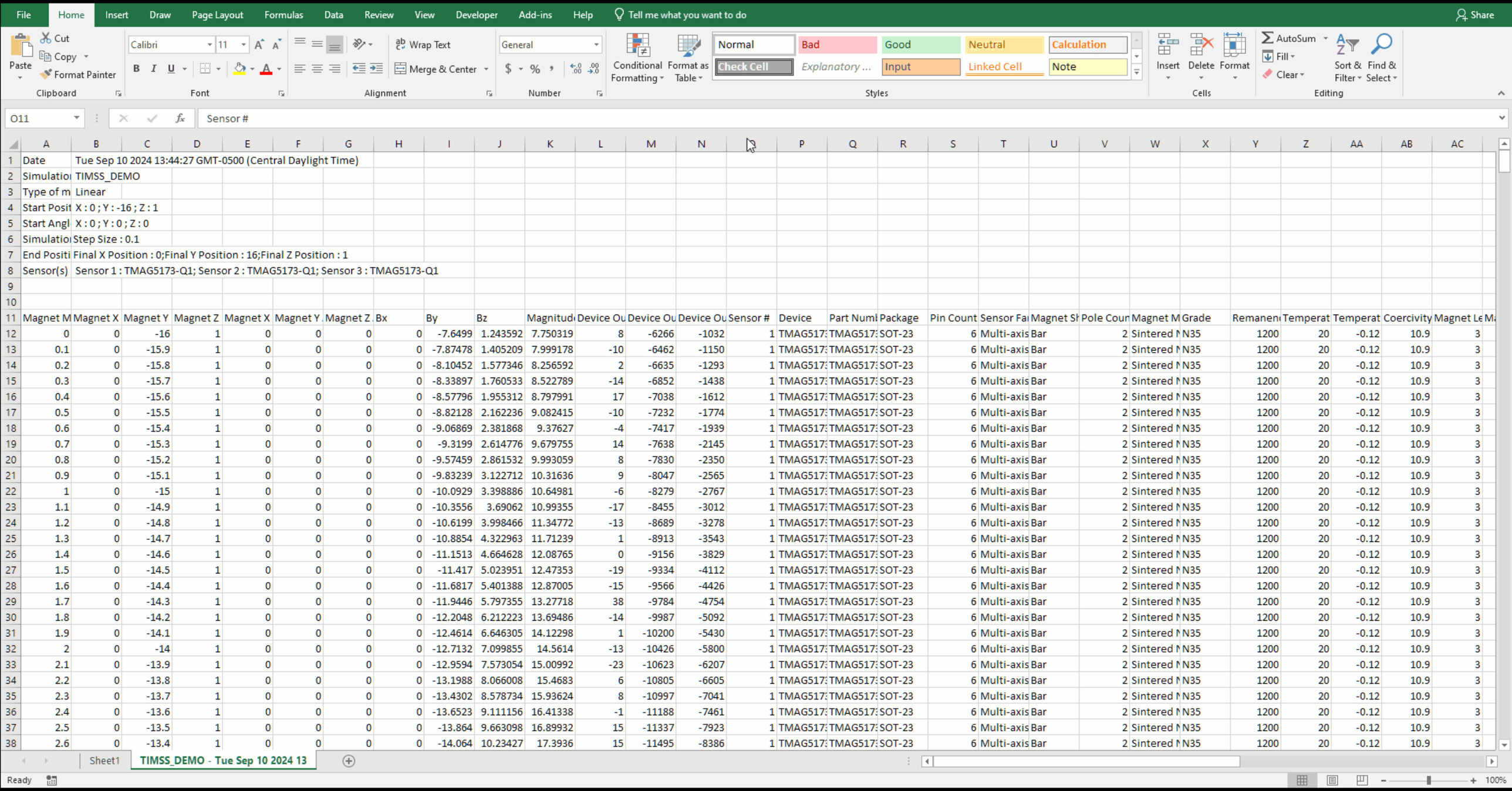
9																													
10																													
11	Magnet M	Magnet X	Magnet Y	Magnet Z	Magnet X	Magnet Y	Magnet Z	Bx	By	Bz	Magnitud	Device Ou	Device Ou	Device Ou	Sensor #	Device	Part Numl	Package	Pin Count	Sensor Fa	Magnet Sh	Pole Coun	Magnet M	Grade	Remanen	Temperat	Temperat	Coercivity	Magnet Le	Ma
12	0	0	-16	1	0	0	0	0	-7.6499	1.243592	7.750319	8	-6266	-1032	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
13	0.1	0	-15.9	1	0	0	0	0	-7.87478	1.405209	7.999178	-10	-6462	-1150	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
14	0.2	0	-15.8	1	0	0	0	0	-8.10452	1.577346	8.256592	2	-6635	-1293	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
15	0.3	0	-15.7	1	0	0	0	0	-8.33897	1.760533	8.522789	-14	-6852	-1438	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
16	0.4	0	-15.6	1	0	0	0	0	-8.57796	1.955312	8.797991	17	-7038	-1612	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
17	0.5	0	-15.5	1	0	0	0	0	-8.82128	2.162236	9.082415	-10	-7232	-1774	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
18	0.6	0	-15.4	1	0	0	0	0	-9.06869	2.381868	9.37627	-4	-7417	-1939	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
19	0.7	0	-15.3	1	0	0	0	0	-9.3199	2.614776	9.679755	14	-7638	-2145	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
20	0.8	0	-15.2	1	0	0	0	0	-9.57459	2.861532	9.993059	8	-7830	-2350	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
21	0.9	0	-15.1	1	0	0	0	0	-9.83239	3.122712	10.31636	9	-8047	-2565	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
22	1	0	-15	1	0	0	0	0	-10.0929	3.398886	10.64981	-6	-8279	-2767	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
23	1.1	0	-14.9	1	0	0	0	0	-10.3556	3.69062	10.99355	-17	-8455	-3012	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
24	1.2	0	-14.8	1	0	0	0	0	-10.6199	3.998466	11.34772	-13	-8689	-3278	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
25	1.3	0	-14.7	1	0	0	0	0	-10.8854	4.322963	11.71239	1	-8913	-3543	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
26	1.4	0	-14.6	1	0	0	0	0	-11.1513	4.664628	12.08765	0	-9156	-3829	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
27	1.5	0	-14.5	1	0	0	0	0	-11.417	5.023951	12.47353	-19	-9334	-4112	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
28	1.6	0	-14.4	1	0	0	0	0	-11.6817	5.401388	12.87005	-15	-9566	-4426	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
29	1.7	0	-14.3	1	0	0	0	0	-11.9446	5.797355	13.27718	38	-9784	-4754	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
30	1.8	0	-14.2	1	0	0	0	0	-12.2048	6.212223	13.69486	-14	-9987	-5092	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
31	1.9	0	-14.1	1	0	0	0	0	-12.4614	6.646305	14.12298	1	-10200	-5430	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
32	2	0	-14	1	0	0	0	0	-12.7132	7.099855	14.5614	-13	-10426	-5800	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
33	2.1	0	-13.9	1	0	0	0	0	-12.9594	7.573054	15.00992	-23	-10623	-6207	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
34	2.2	0	-13.8	1	0	0	0	0	-13.1988	8.066008	15.4683	6	-10805	-6605	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
35	2.3	0	-13.7	1	0	0	0	0	-13.4302	8.578734	15.93624	8	-10997	-7041	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
36	2.4	0	-13.6	1	0	0	0	0	-13.6523	9.111156	16.41338	-1	-11188	-7461	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
37	2.5	0	-13.5	1	0	0	0	0	-13.864	9.663098	16.89932	15	-11337	-7923	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
38	2.6	0	-13.4	1	0	0	0	0	-14.064	10.23427	17.3936	15	-11495	-8386	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	



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11	Magnet M	Magnet X	Magnet Y	Magnet Z	Magnet X	Magnet Y	Magnet Z	Bx	By	Bz	Magnitud	Device Ou	Device Ou	Device Ou	Sensor #	Device	Part Numl	Package	Pin Count	Sensor Fa	Magnet Sh	Pole Coun	Magnet M	Grade	Remanen	Temperat	Temperat	Coercivity	Magnet Le	Ma
12	0	0	-16	1	0	0	0	0	-7.6499	1.243592	7.750319	8	-6266	-1032	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
13	0.1	0	-15.9	1	0	0	0	0	-7.87478	1.405209	7.999178	-10	-6462	-1150	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
14	0.2	0	-15.8	1	0	0	0	0	-8.10452	1.577346	8.256592	2	-6635	-1293	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
15	0.3	0	-15.7	1	0	0	0	0	-8.33897	1.760533	8.522789	-14	-6852	-1438	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
16	0.4	0	-15.6	1	0	0	0	0	-8.57796	1.955312	8.797991	17	-7038	-1612	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
17	0.5	0	-15.5	1	0	0	0	0	-8.82128	2.162236	9.082415	-10	-7232	-1774	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
18	0.6	0	-15.4	1	0	0	0	0	-9.06869	2.381868	9.37627	-4	-7417	-1939	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
19	0.7	0	-15.3	1	0	0	0	0	-9.3199	2.614776	9.679755	14	-7638	-2145	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
20	0.8	0	-15.2	1	0	0	0	0	-9.57459	2.861532	9.993059	8	-7830	-2350	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
21	0.9	0	-15.1	1	0	0	0	0	-9.83239	3.122712	10.31636	9	-8047	-2565	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
22	1	0	-15	1	0	0	0	0	-10.0929	3.398886	10.64981	-6	-8279	-2767	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
23	1.1	0	-14.9	1	0	0	0	0	-10.3556	3.69062	10.99355	-17	-8455	-3012	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
24	1.2	0	-14.8	1	0	0	0	0	-10.6199	3.998466	11.34772	-13	-8689	-3278	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
25	1.3	0	-14.7	1	0	0	0	0	-10.8854	4.322963	11.71239	1	-8913	-3543	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
26	1.4	0	-14.6	1	0	0	0	0	-11.1513	4.664628	12.08765	0	-9156	-3829	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
27	1.5	0	-14.5	1	0	0	0	0	-11.417	5.023951	12.47353	-19	-9334	-4112	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
28	1.6	0	-14.4	1	0	0	0	0	-11.6817	5.401388	12.87005	-15	-9566	-4426	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
29	1.7	0	-14.3	1	0	0	0	0	-11.9446	5.797355	13.27718	38	-9784	-4754	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
30	1.8	0	-14.2	1	0	0	0	0	-12.2048	6.212223	13.69486	-14	-9987	-5092	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
31	1.9	0	-14.1	1	0	0	0	0	-12.4614	6.646305	14.12298	1	-10200	-5430	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
32	2	0	-14	1	0	0	0	0	-12.7132	7.099855	14.5614	-13	-10426	-5800	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
33	2.1	0	-13.9	1	0	0	0	0	-12.9594	7.573054	15.00992	-23	-10623	-6207	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
34	2.2	0	-13.8	1	0	0	0	0	-13.1988	8.066008	15.4683	6	-10805	-6605	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
35	2.3	0	-13.7	1	0	0	0	0	-13.4302	8.578734	15.93624	8	-10997	-7041	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
36	2.4	0	-13.6	1	0	0	0	0	-13.6523	9.111156	16.41338	-1	-11188	-7461	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
37	2.5	0	-13.5	1	0	0	0	0	-13.864	9.663098	16.89932	15	-11337	-7923	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	
38	2.6	0	-13.4	1	0	0	0	0	-14.064	10.23427	17.3936	15	-11495	-8386	1	TMAG517	TMAG517	SOT-23	6	Multi-axis	Bar	2	Sintered N	N35	1200	20	-0.12	10.9	3	

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