

Quick Reference: AA and AB-Series

For comparison and product selection purposes, the following table lists all available AA and AB-Series analog sensors, with some of their key characteristics:

Magnetometers:

Part Number	Linear Range (Oe ¹)		Sensitivity (mV/V-Oe ¹)		Maximum Non-linearity (% Uni. ²)	Maximum Hysteresis (% Uni. ²)	Maximum Operating Temp (°C)	Typical Resistance (Ohms)	Package
	Min	Max	Min	Max					
AA002-02	1.5	10.5	3.0	4.2	2	4	125	5K	SOIC8
AA003-02	2.0	14	2	3.2	2	4	125	5K	SOIC8
AA004-00	5.0	35	0.9	1.3	2	4	125	5K	MSOP8
AA004-02	5.0	35	0.9	1.3	2	4	125	5K	SOIC8
AA005-02	10.0	70	0.45	0.65	2	4	125	5K	SOIC8
AA006-00	5.0	35	0.9	1.3	2	4	125	30K	MSOP8
AA006-02	5.0	35	0.9	1.3	2	4	125	30K	SOIC8
AAH002-02	0.6	3.0	11.0	18.0	6	15	150	2K	SOIC8
AAH004-00	1.5	7.5	3.2	4.8	4	15	150	2K	MSOP8
AAL002-02	1.5	10.5	3.0	4.2	2	2	150	5.5K	SOIC8

Gradiometers:

Part Number	Linear Range (Oe ¹)		Resistor Spacing (mm)	Maximum Non-linearity (% Uni. ²)	Maximum Hysteresis (% Uni. ²)	Maximum Operating Temp (°C)	Typical Resistance (Ohms)	Package
	Min	Max						
AB001-02	20	200	0.5	2	4	125	2.5K	SOIC8
AB001-00	20	200	0.5	2	4	125	2.5K	MSOP8
ABH001-00	5	40	0.5	4	15	150	1.2K	MSOP8

Notes:

- Oersted (Oe) = 1 Gauss in air.
- Unipolar operation means exposure to magnetic fields of one polarity, for example 0 to +30 Gauss, or -2 to -50 Gauss. Bipolar operation (for example, -5 to +10 Gauss) will increase nonlinearity and hysteresis