holybro-magnetometer-comparison.md

> For the complete documentation index, see llms.txt (https://docs.holybro.com/llms.txt). Markdown versions of documentation pages are available by appending `.md` to page URLs; this page is available as Markdown (https://docs.holybro.com/gps-and-rtk-system/m8n-m9n-m10-gps/build-in-magnetometer-comparison.md).

Build-In Magnetometer Comparison

```
* **IST8310:** Wider magnetic range. Less likely to saturate when exposed to strong magnetic interference.
* **IST8308:** Higher sensitivity and finer resolution, capable of detecting smaller magnetic-field changes

|                                      |                                                 |
| ------------------------------------ | ----------------------------------------------- | -------------
|                                      | IST8308                                         | IST8310
| Max Data Rate (Hz)                   | 200                                             | 200
| DR: Dynamic Range (μT)               | ±500                                            | ±1600 or ±250
| Linearity (%FS)                      | 0.1                                             | 1 (x0axis), 0
| Resolution (uT/LSB)                  | &lt;p&gt;0.075 (DR: ±200 μT)&lt;br&gt;0.15 (DR: ±500 μT)&lt;/p&g
| Sensitivity (LSB/uT)                 | &lt;p&gt;13.2 (DR: ±200 μT)&lt;br&gt;6.6 (DR: ±500 μT)&lt;/p&gt;
| Zero Gauss Offset (uT)               | ±0.3                                            | ±0.3
| Hysteriesis (%FS)                    | 0.1                                             | 0.1
| Sensitivity Temperature Drift (%/°C) | ±0.023                                          | ±0.016
| Zero-B Offset Temperature Drift (uT/°C) | 0.027                                        | 0.024
| Firmware Compatibility               | &lt;p&gt;PX4: V1.16.0+&lt;br&gt;Ardupilot: V4.6.0+&lt;/p&gt;
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# Agent Instructions
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```
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`ask` is the immediate question: it should be specific, self-contained, and written in natural language.
`goal` is optional and describes the broader end goal you are ultimately trying to accomplish on behalf of t
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