

Telemetry

This page is based on [This RCGroups Post](#)

Devo 7e and other versions update info:

The telemetry is present in deviation firmware in the latest nightlies, currently. That means you may need to flash a recent nightly to make use of telemetry with the bayang protocol, and your flashed quadcopter.

Please back-up the model files, and perhaps other files just in case, when upgrading the transmitter firmware.

To enable telemetry , hit enter when selecting bayang protocol, the same as enabling telemetry for other protocols, such as DSMX

The protocol with telemetry enabled will **only bind to a quad with telemetry capability**. With telemetry off, it will bind to all quads, including factory firmware, and telemetry quads.

About telemetry data:

The quad sends battery voltage, battery voltage- compensated against throttle , packets received (reception quality indicator) , and battery low -led flash signal

Additionally, the tx generates telemetry reception stats.

Telemetry names:

Telemetry names are shared with the dsm2 protocol, and as such, their names are not very appropriate to describe quantity they represent.

***Fades_L** - led battery low flashing= 100 , otherwise 0

***Loss** - TX's telemetry reception quality indicator in packets per seconds (max 200)

***Holds** - quad's reception indicator in packets per seconds (max 200)

***RxV -Volt1**- real battery voltage

***Batt -Volt2**- compensated battery voltage

Alarms:

You could setup some alarms for telemetry data. Make sure you fly in range of telemetry if you rely on them only.

FadesL > 1 will create an alarm that sounds if the leds flash a low battery code

Batt ≤ 3.40 is ok for low battery alarm - using voltage compensation settings from config.h

Rxv ≤ 2.90 - real battery voltage - this would be more like a traditional lvc that sounds on max throttle sometimes

The real voltage goes down a lot, so it may not be very useful. An alarm of 2.8 - 3.0 could be used.

Additional:

Since the telemetry range is shorter compared to the tx range (with PA) , there is no point setting an alarm for quad reception strenght, as the telemetry will probably fail before that level is reached.

The quadcopter only sends telemetry after a packet is received from the transmitter. This is to avoid on-air clashes when the code hopping becomes unsynchronized. Because of this, the telemetry rate will go down when reception is poor.

From:

<https://sirdomsen.diskstation.me/dokuwiki/> - **Silverware Wiki**

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