

Tool info

Serial API: 1:1.0
Board: Custom STM32F401RE thrustBoard v2
Firmware: thrust++ : ChibiOS RT 7.1.0 : HAL 8.1.0
Commit: [7ea798b] : Apr 25 2022 - 18:19:20

Measurement info

Motor: T-Motor MN2206-13
KV: 2000
Magnet poles: 14
Propeler: no propeller
Blade count: 0
Note:

Measurement Results 1:

Output [%]	Thrust [G]		Torque [G cm]		RPM [1/min]		Voltage [V]		Current [A]		Pin [W]	ThrustEff [G/W]
	mean	std dev	mean	std dev	mean	std dev	mean	std dev	mean	std dev		
20	0.75	4.004	4.67	3.013	4759	10.9	12.141	0.0039	0.130	0.0088	1.580	0.474
25	0.65	4.004	4.80	3.013	5899	17.7	12.140	0.0041	0.166	0.0126	2.014	0.323
30	-0.30	4.005	4.98	3.013	7108	27.4	12.141	0.0049	0.188	0.0129	2.287	-0.129
35	-0.30	4.004	5.04	3.013	8272	32.6	12.135	0.0042	0.242	0.0171	2.942	-0.104
40	-0.38	4.004	5.62	3.013	9472	56.0	12.133	0.0031	0.263	0.0177	3.194	-0.119
45	-1.53	4.004	4.44	3.014	10621	81.1	12.134	0.0052	0.294	0.0325	3.573	-0.430
50	-2.90	4.004	4.27	3.013	11750	85.6	12.129	0.0038	0.322	0.0218	3.900	-0.744
55	-3.37	4.004	3.33	3.014	12883	89.5	12.127	0.0044	0.373	0.0309	4.520	-0.746
60	-3.35	4.004	2.68	3.015	14102	69.3	12.123	0.0040	0.403	0.0262	4.890	-0.684
65	-3.38	4.004	1.43	3.044	15312	95.8	12.123	0.0040	0.429	0.0445	5.203	-0.650
70	-3.38	4.004	0.38	3.015	16479	119.5	12.121	0.0039	0.455	0.0333	5.512	-0.614
75	-3.38	4.004	0.92	3.018	17717	80.4	12.119	0.0047	0.470	0.0248	5.698	-0.593
80	-7.57	4.043	5.10	3.017	18809	122.2	12.116	0.0043	0.488	0.0333	5.915	-1.280
90	-4.35	4.005	6.84	3.013	21142	92.4	12.113	0.0035	0.535	0.0127	6.485	-0.671
100	-0.64	4.009	4.66	3.014	23243	100.8	12.109	0.0048	0.592	0.0144	7.167	-0.089

Plots for Measurement Results:

