


# ST-101 TECHNICAL SPECIFICATIONS STANDARD DATASHEET

 ST-101	Specification	Standard
<b>Basic Information</b>	Storage Temp & Humidity	-20°C~+60°C- , =<90% suggested
	Operating Temp & Humidity	-20°C - 50°C, =< %75 suggested
	Dimensions	160 x 267 x 666,5 mm (6.29" x 10.51" x 26.24")
	Net Weight	~6.5 kg
	Power Supply	5V 1A USB Type-C
	Max Propeller Diameter	30 inch
	Sampling Rate	1000Hz
<b>Voltage and Current</b>	Voltage Range	0 - 60 V
	Voltage Resolution	0,001 Volt
	Voltage Measurement Error	≤ ±0.5%
	Current Range	0 - 75 A
	Current Resolution	0,001 A
	Current Measurement Error	≤ ±1%
<b>Thrust</b>	Range	10 kgF
	Resolution	0.001 kgF (1 gF)
	Measurement Error	≤ ±1%
<b>Torque</b>	Range	3.5 Nm
	Resolution	0,001 Nm
	Measurement Error	≤ ±1%
<b>RPM Sensor</b>	Range	0 - 100 000 RPM
	Working Environment	indoor
	Measurement Error	±1 RPM
<b>Pressure</b>	Range	300~ 1100 hPa
	Resolution	0.01hPa 0.1°C
	Measurement Error	±0.1 hPa
<b>Motor Temperature</b>	Range	-20 ~ +350 °C
	Resolution	0.02 °C
	Measurement Error	±0.5 °C
<b>Ambient Temperature</b>	Range	-40 ~ +85 °C
	Resolution	0.02 °C
	Measurement Error	±0.5 °C
<b>Wifi Module (Optional)</b>	Wireless Module	1 Mbps 19.5 dBm 2.4GHz
<b>Dynamic Test Kit (Optional)</b>	Wind Direction / Measurement Accuracy / Resolution	0 - 359° / ±3° / 1°
	Wind Speed / Measurement Accuracy / Resolution	0 - 40m/s / ±5% / 0.1m/s
	Ambient Temperature / Measurement Accuracy / Resolution	-40°C&+80°C / ±0.5°C / 0.1°C
	Digital Output / Output Frequency	RS485 / 1Hz
	Power Supply	VDC:7-24V