

# ST-501 TECHNICAL SPECIFICATIONS STANDARD DATASHEET

 DYNOTIS ST-501	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	225 x 330 x 1305 mm (8.85" x 12.99" x 51.37")
	Net Weight	11 kg
	Power Supply	5V 1A USB Type-C
	Max Propeller Diameter	60 inch
	Sampling Rate	1000 Hz
<b>Voltage and Current</b>	Voltage Range	0 - 120 V
	Voltage Resolution	0,001 Volt
	Voltage Measurement Error	≤ ±0.5%
	Current Range	0 - 300 A
	Current Resolution	0,001 A
	Current Measurement Error	≤ ±1%
<b>Thrust</b>	Range	±0.1-50 kgF
	Resolution	0.001 kgF (1 gF)
	Measurement Error	≤ ±1% FS
<b>Torque</b>	Range	±0.1-30 Nm
	Resolution	0,001 Nm (1 Nmm)
	Measurement Error	≤ ±1% FS
<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 - 360° / ±3° / 1°
	Wind Speed / Measurement Accuracy / Resolution	0 - 60m/s / ±2% / 0.1m/s
	Operating Temperature / Protection Class	-50°C ~ +70°C / IP65
	Dimensions / Weight	Φ144x165mm / 0.36
	Digital Output / Output Frequency	RS485 / 10Hz
	Power Supply	10 mA VDC:7-30V