



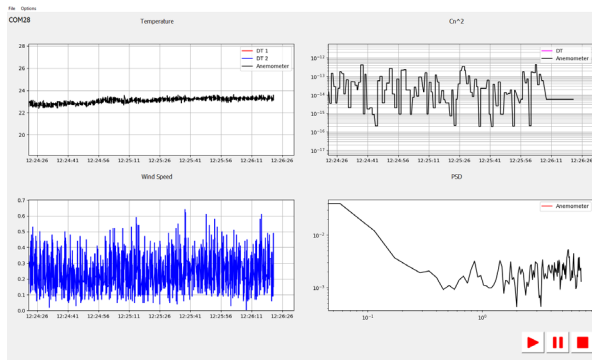
# Atmospheric Characterization Weather Payload (WPV3)



## Atmospheric Characterization Payload (WP-V3 ACP)



Complete and customizable meteorological sensor suite for making low earth atmospheric measurements that can be integrated into a wide range of UAS platforms.

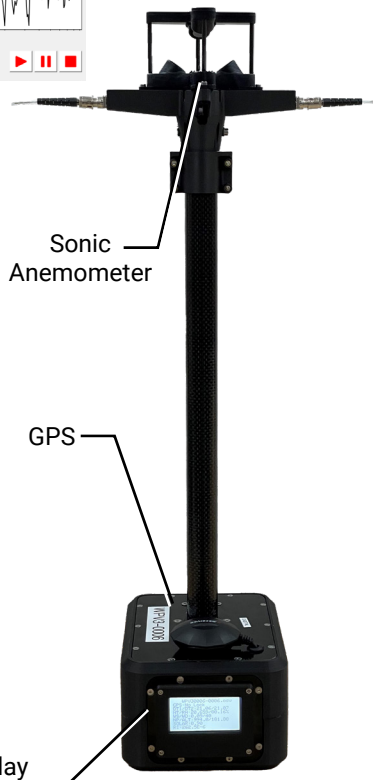


### Features

- Live Display
- Built in GPS
- Customizable/Upgradable Sensors (I2C, SPI, Analog)
- Live Telemetry
- Open SDK
- DJI M600, IEV2, E900, and E1250 supported UAS

### Applications

- Atmospheric Profiling
- Urban Terrain Profiling
- Wild Fire Monitoring
- Forecasting Tool
- Storm Chasing
- Education and Research



Atmospheric Characterization Payload (WP-V3 ACP)					
Component	Feature	Specs	Unit		
Anemometer	Wind Speed	Range	0-50	m/s	
		Resolution	0.1	m/s	
		Accuracy (0-15 m/s)	+/-0.1	m/s	
		Accuracy (15-30m/s)	+/-2	%	
	Wind Direction	Range (x,y)	360	Deg	
		Range (z)	+/-30	Deg	
		Resolution	+/-1	Deg	
		Accuracy	+/-1	Deg	
	Temperature	Range	-25-80	C	
		Resolution	0.1	C	
Humidity	Range	0-100	%		
	Accuracy	+/-5	%		
Pressure	Range	50-115	kPa		
	Accuracy	+/-1	kPa		
Tilt	Pitch and Roll	+/-180	Deg		
	Accuracy	+/-0.5	Deg		
Compass	Heading	360	Deg		
	Accuracy	+/-5	Deg		
DAQ	Data Storage	SD Card	32	GB	
	System Speed	Frequency	20	Hz	
Total Weight		0.75	kg		
Boom Height		46	cm		
Input Power		14-50	VDC		
Options					
DTS	Temperature	Type	K		
		Range	-40-125	C	
		Resolution	0.0625	C	
		Accuracy	0.5	C	
Solar	Irradiance	Spacing	15-30	cm	
		Range	0-2000	W/m^2	
		Resolution	0.25	W/m^2	
		Accuracy	+/-5	%	
Spectrum		360-1120	nm		