NOA - MiniMill Fieldmeter Specs

Baud Rate			**Dynamic range**	
Pre Radiosonde	115200		single sensitive channel	
On Radiosonde	9600	8 data bits, no parity, one stop bit (8N1)		
			Noise	
RPMs:			Zero field error	~ 2mV
~ 45 Hz	2700 (average)		Field uncertainty	± 3V/m
Sampling Rate			**Sensitivity**	1 ADC cnt, ± 2.3mV per V/m
Pre Radiosonde	9500 Samples Per Second			
On Radiosonde	1 Sample Per Second		**Resolution**	0 - 1024 ADC cnts, ± 2.4kV
Modes:			**Accuracy**	1 ADC cnt
1) w/ Accelerometer	MPU6050 - Triple Axis Gyroscope & Accelerometer IMU			
2) No rotational information				
			Bandwidth (dB)	through UART
				Radiosonde defined bandwidth
Motor:	FlyCat 2204/260kV Brushless Motor		**Physical**	
			Mass	250 gr
			Power	9V batteries (DC in)
Speed controller:	XXD HW30A 30A Brushless Motor ESC		Cosumption	< 160mA
PCB type:	multilayered		**Electrode Deck**	
PCB1	PTH, 70X70mm, FR4 1mm, 35µm		Radius	45mm
PCB/Electrode	Electrode Deck with copper plating			
Microcontroller type			**Shutter**	
Arduino Nano CH340			Radius	5.83cm
			Thickness	1mm
			Distance from the Electro	4mm
Operating environment	(implemented configuration)			
Temperature	up to - 40°C		**Cube Dimensions:**	
Altitude	msl to ~ 13km		Height	79mm
Humidity	to 100%		Length	76mm
			Width	76mm