Team Number	306
Project Name	Weather Station
Team Members	Aarshon George
	Alex Comeaux
	lan Anderson
	Kushagra Dashora
Subsystem	Sensor Suite

Power Budget

All Major Components	Component Name	Part Number	Voltage Supply	#	Absolute Maximum	Total Current
Act tajor components	Componentivame	Tarrivamber	Range	"	Current	(mA)
	PIC 18 Microcontroller	PIC18F27Q10-I/SO	1.8V-5.5V	1	250	250
	Rotary Hall Effect Sensor	AS5600L-ASOM SOIC8 LFT&RDP	3.0V-3.6V	1	100	100
	Humidity & Temperature Sensor	HIH6030-021-001	2.3V-5.5V	1	1	1
Barometer		MS580301BA01-00	1.8V-3.6V	1	1.4	1.4
	Comparator	MCP6541RT-E/OT	1.6V-5.5V	1	2	2
			Voltage		Absolute	Total
+3.3V Rail	Component Name	Part Number	Supply	#	Maximum	Current
			Range		Current	(mA)
	PIC 18 Microcontroller	PIC18F27Q10-I/SO	1.8V-5.5V	1	250	250
	Rotary Hall Effect Sensor	AS5600L-ASOM SOIC8 LFT&RDP	3.0V-3.6V	1	100	100
	Humidity & Temperature Sensor	HIH6030-021-001	2.3V-5.5V	1	1	1
	Barometer	MS580301BA01-00	1.8V-3.6V	1	1.4	1.4
	Comparator	MCP6541RT-E/OT	1.6V-5.5V	1	2	2
					Subtotal	354.4
	Safety Margin					
	Total Current R					443
1. Regulator	+3.3V Buck Converter	LMR16006YQ3DDCRQ1	4.0V-40V	1	600	600
			Remaini	ng Current	157	
External Power Source	Component Name	Part Number	Voltage Supply Range	Output Voltage	Current Supply Capacity	Total Current (mA)
External Power Source 1						0
3.3V Power Rail	+3.3V Buck Converter	LMR16006YQ3DDCRQ1	4.0V-40V	1	600	600
Remaining Current on External Power Source						