



# Coastal's MacroMets

- Description:** Coastal's MacroMets measures meteorological parameters including, but not limited to: wind speed and direction, barometric pressure, relative humidity, air temperature, rainfall and radiation.
- Capacity:** 200 K standard  
Optional (Compact Flash Cards): 8MB, 16 MB, etc.
- Housing:** **Diameter** – 5.5 in.  
**Length** – 15.5 in. (including handle)  
**Weight** – 17 lbs. in air  
**Material** – Stainless steel and UHMW plastic housing  
Additional sensors will vary the length and weight of a MacroMets.
- Power:** User replaceable standard alkaline D cells
- Interface:** Wizard IBM PC compatible software  
ASCII data files in engineering units  
User controlled sampling parameters and sensor functions
- Clock:** Solid state real time, accuracy one minute per year
- Standard & Optional:** **Barometric Pressure** – ICS StrainGauge Pressure Sensor  
**Wind Speed** – RM Young Propellor Vane  
**Wind Direction** – RM Young Helicoil  
**Orientation** – FSI Ostar Compass  
**Temperature, External** – YSI Thermister  
**Relative Humidity**– Vaisala HMP 35A  
**Rainfall** – RainWise Tipping Bucket  
**Radiation** – Biospherical Inst. QSP-200 PAR Sensor



Coastal MacroSeries Instrument (pressure only)



Optional Met Sensors (l to r)  
Radiation, External Temp Shield, Turbidity, External Pressure, Wind, RH, C-T, Rain Bucket

Function	Sensor	Range	Accuracy	Resolution	Units
Barometric Pressure	IC Sensors Strain Gauge, piezoresistive	30, 50, 100, 250	0.1%	12 bit	psia
Wind Speed	RM Young Propellor Vane	0-60	2% of read	.015	m/s
Wind Direction	RM Young Helicoil	0-360	+5<	.09°	deg. rel.
Orientation	FSI Ostar Compass	0°-360°	2°	.09°	deg. mag.
Temperature	YSI Ext. Bulkhead Thermister	-5° to 35°	0.1°	.02 typ	°C
Rel. Humidity	Vaisala HMP 35	0-100	+2%	.012%	%
Rainfall	Rainwise Tipping Bucket	32cm/5min	0.2	0.2	mm
Radiation	Biospherical Inst. QSP-200	0-5x10 <sup>17</sup>	-	12 bit	quanta/cm <sup>2</sup> /sec <sup>2</sup>