Tabela equipamentos – MEAÍPE

Variable	Unit (SI)	Sensor	Range	Accuracy	Height (m)
Air temperature	ºC	Campbell Sci. Model HC2S3	-40 to +70	±0.1°C at +23°C	3.66
Relative humidity	%		0 to 100%	±0.8% at +23°C	
Pressure	hPa	Vaisala Model PTB110	500 to 1100 hPa	±0.6hPa (@ 0° to 40°C)	0.55
Wind speed	m s^{-1}	RM Young Model Model 05103	0-100 ms^{-1}	±0.3 ms^{-1}	4.31
Wind direction	degree		0-360 degree	±3 degree	
Pyranometer	W m^{-2}	Kipp Zonen Net Radiation Model CNR4	305 to 2800 nm	< 5%	3.94
Pyrgeometer			4500 to 42000nm	< 10%	
Rain Gage	mm	HS Hyquest Solutions Model CS700-L	0 to 700 mmh^{-1}	±2% @ < 250 mmh^{-1}	2.4
Soil temperature	ºC	Campbell Sci. Model 109	-50 to 70 °C	±0.1°C (0 to 70°C)	-0.05
Soil heat flux	W m^{-2}	Hukseflux Model HFP01	± 2000 Wm^2	Within -15% to +5% in most common soils (12 hour totals)	-0.05
Gamma radiation	µSv/h	Gamma-Scout	0.01 – 5000 μSvh^{-1}	< 1%	0.11 0.35 2.99
Ux	m s^{-1}	Campbell Sci Anemometer sonic Model CSAT3	±30 ms^{-1}, ±60 ms^{-1}	< ±0.08 ms^{-1}	4.10
Uy					
Uz			±8 ms^{-1}	< ±0.08 ms^{-1}	
c*			300 to 366 ms^{-1} (-50° to +60°C)	< ±0.04 ms^{-1}	
CO_2	μmol mol^{-1}	LICOR Gas Analyzer Model LI-7500	0 to 3000 μmol mol^{-1}	1%	4.12
H_2O	mmol mol^{-1}		0 to 60 mmol mol^{-1}	1%	
Temperature	°C		-25 to 50°C	Under the worst conditions (50°C and saturated), a 10 °C error in the temperature measurement would make less than a 0.01% error in the CO2 number density. Mole fraction errors in pressure and temperature are directly proportional to errors in mole fraction.	
Pressure	kPa		50 to 110 kPa		

Speed of sound