Sensor	Model	Serial #	Manuf.	Calibrate	New	Dates in Use	Date Calib.	AT Mult.	AT Offset	RH Mult.	RH Offset
Temp. and Rel. Humidity	HMP45C	U2520001	Campbell Sc.	Annually	8/1999	8/11/99 – 12/31/99	new 8/99	0.1	-40	0.1	0
Temp. and Rel. Humidity	HMP35C	R2620008	Campbell Sc.	Annually	6/1997	7/97 - 8/11/99	new 6/97	1	0	0.1	0

HMP45C Multipliers:

Air Temp in Celsius
Multiplier: 0.1 (from manual)
Offset: -40 (from manual)

Air Temp in Fahrenheit
Multiplier: 0.18 (from manual)
Offset: -40 (from manual)

Relative Humidity
Multiplier: 0.1 (from manual)
Offset: 0 (from manual)

HMP35C Multipliers:

Air Temp in Celsius
Multiplier: 1.0 (from manual)
Offset: 0 (from manual)

Air Temp in Fahrenheit
Multiplier: 1.8 (from manual)
Offset: 32 (from manual)

Relative Humidity
Multiplier: 0.1 (from manual)
Offset: 0 (from manual)

Sensor	Model	Serial #	Manuf.	Calibrate	New	Dates in Use	Date Calib.	Calib. Const.	Multiplier
Li-Cor Quantum Sensor	LI-190SB	Q26604	Li-Cor	2years	1994	4/99 – 12/31/99	4/16/1999	6.5	1.27
						7/97 - 4/99	new 7/97	???	???

Multiplier for Total fluxes equation: (1 / C) x t
Where C = calibration constant x 0.604 (0.604 accounts for the 604 ohm shunt resistor)
Where t = datalogger program execution interval in seconds (we have a 5 second interval)

Current Multiplier:
(1 / 4.66 x 0.604) x 5 = (1 / 2.81464) x 5 = 0.3553 x 5 = 1.78

The dates in use, calibration constants, and multipliers in use before 3/2001 are poorly documented and in question.

Sensor	Model	Serial #	Manuf.	Calibrate	New	Dates in Use	Date Calib.	Multiplier	Offset
Barometric Pressure	CS105	U1120009	Campbell Sc.	Annually	1999	8/11/99 – 12/31/99	new 1999	0.184	600
Barometric Pressure	CS105		Campbell Sc.	Annually	6/1997	7/97 - 8/11/99		0.184	600

CS105 Multipliers:

Barometric Pressure in millibars
Multiplier: 0.184 (from manual)
Offset: 600 (from manual)

To find inches of Hg
Multiply by 0.02953

Sensor	Model	Serial #	Manuf.	Calibrate	New	Dates in Use	Date Calib.	WS Multiplier	WS Offset	WD Mult.	WD Offset
Wind Sentry	03001-5	8702	Campbell Sc.	Annually		7/97 –12/31/99	3/11/1997	0.75	0.2	0.142	0

Wind Sentry Multipliers:

Wind Speed in Meters/Second
Multiplier = 0.750 (from manual)
Offset = 0.2 (from manual)

Wind Speed in Miles/Hour
Multiplier = 1.677 (from manual)
Offset = 0.4 (from manual)

Wind Direction
Multiplier = 0.142 (from manual)
Offset = 0 (from manual)

Sensor	Model	Serial #	Manuf.	Calibrate	New	Dates in Use	Date Calib.	Calib. Const. = volts/watts meter-2	Calib. Const. mv/cal cm-2 min-1	Multiplier
Eppley B&W Pyranometer	8-48	28078	Eppley	Annually		8/11/99 – 12/31/99	3/19/1997	0.00001035	7.22	0.1385
					???	???	???	0.00001028	7.17	0.13947

Multiplier for Eppley Pyranometer: 1/((C x 697.3) x 1000)

Where C = Calibration Constant in volts/watts meter-2
And 1 cal cm-2 min-1 = 697.3 watts meter-2

10.97 x 10-6 volts/watts meter-2 X 697.3 watts meter –2 = 0.007649 volts/cal cm-2 min-1
0.007649 volts/cal cm-2 min-1 X 1000 = 7.65 millivolts/cal cm-2 min-1
1 / 7.65 = 0.13072

Sensor	Model	Serial #	Manuf.	Calibrate	New	Dates in Use	Date Calib.	Multiplier
Tipping Bucket Rain Gauge	2500	1425C	Sierra Misco	(Field Calib.) Ann.	6/1997	7/97 – 12/31/99		0.254

Multiplier for output in mm: 0.254 (from the manual)
Multiplier for output in inches: 0.001 (from the manual)

Equipment	Model	Serial #	Manuf.	Calibrate	New	Dates in Use
Internal Humidity Sensor	???	???	???		???	???
Datalogger	CR10X	???	Campbell Sc.		8/11/1999	8/11/1999 – 12/31/99
	CR10X	???	???		7/1997	7/1997 – 8/11/1999
Battery Power Supply	???	???	???		???	???
16x18 WP Enclosure	???	???	???		???	???