mySQM+ CLOUD SENSOR II FORMAT

- Connect to controller
- Enable checkbox CSII Format
- Set logging interval
- Enable Automate logging

Date/Time yyyy-MM-dd HH:mm:ss.ss

Temperature C values in Celsius Wind Velocity m meters per second

Sky temperature IRObject Temperature
Ambient temperature IRAmbientTemp
Sensor case temperature bme280temperature

Wind Speed in m/s

Humidity bme280humidity
Dew Point bme280dewpoint

Heater % 0

Rain Flag Raining or Not raining Seconds since the last valid data timerinterval tick / 1000

Now 038506.08846

c sky state skystate

w wind condition 0

r rain condition Raining or Not raining

d daylight condition lux C roof close 0 A Alert 0

Skystate

Cloud cover percentage (0-100%) is used to generate the cloud condition value in the CSII log.

if cloudcover > cloudVeryCloudy then cloudstate = 3 else if cloudcover > cloudCloudy AND cloudcover < cloudVeryCloudy then cloudstate = 2 else cloudstate = 1

cloudVeryCloudy is the top boundary [default is 59.9]. Any cloudcover value greater than this results in a value of 3 for *cloudstate*

cloudCloudy is the middle boundary [default is 33.9]. Any cloudcover value greater than the cloudCloudy boundary value AND if the cloudcover value is less than the cloudVeryCloudy value, results in a value of 2 for *cloudstate*

cloudClear is the lower boundary. Any cloudcover less than the cloudCloudy value results in a value of 1 for *cloudstate*

Wind Condition

To do this we compare *windspeed* (remember some sensors have a maximum limit reading of 20 m/s) against some arbitrary boundaries to generate a **wind condition**.

windVeryWindy is the top boundary [default is 15.0]. Any windspeed value greater than this results in a value of 3 for *windcondition*

windWindy is the middle boundary [default is 33.9]. Any windspeed value greater than the windWindy value AND less than the windVeryWindy value, results in a value of 2 for windcondition

windCalm is the lower boundary. Any windspeed value that is less than the windWindy value results in a value of 1 for *windcondition*

Daylight Condition

else windcondition = 1

The **lux** value is compared against some arbitary boundaries to generate a **daylight condition**.

dayVeryLight is the top boundary [default is 5000.0]. Any lux value greater than this results in a value of 3 for *daylightcondition*

dayLight is the middle boundary [default is 5.0]. Any lux value greater than the dayLight value AND less than the dayVeryLight value, results in a value of 2 for *daylightcondition*

dayDark is the lower boundary. Any lux value that is less than the dayLight value results in a value of 1 for *daylightcondition*