Group 09 – Solar Power Plant

Sensor ID	Sensor Name / Type	Publishing Range	Publishing Interval (Seconds)	Remarks
Power_Gen (kW)	Power sensor	Min = 300 kW Max = 800 kW	20	Power generation in powerplant
Temp01	Temperature sensor	Min = 18 ^{0}C Max = 40 ^{0}C	21	Indoor temperature
Temp02	Temperature sensor	Min = 40 ^{0}C Max = 80 ^{0}C	19	Temperature near generators
Humidity01	Humidity sensor	Min = 30 % Max = 100 %	23	Humidity level measure
Humidity02	Humidity sensor	Min = 50 % Max = 100 %	12	Outdoor humidity
Wind_Speed	Anemometer	Min = 10 km/h Max = 100 km/h	17	Outdoor wind speed
Wind_Direction	Anemometer	N, NE, E, SE, S, SW, W, NW	27	Wind direction around plant
Light_Intensity01	Light intensity sensor	Min = 0 lx Max = 65535 lx	11	Outdoor light intensity
Light_Intensity02	Light intensity sensor	Min = 100 lx Max = 3000 lx	13	Light intensity
Battery_Capacity	Electronic power sensor	Min = 5 kWh Max = 25 kWh	29	Battery charging