Wind Farm 1 – Metmast

On-site SCADA data from the meteorological mast

Field Name	Description
TimeStamp	Date and time of the measure
Descriptors + Value	Description and value of the sensor data

Please find below the most important meteorological mast signals available and respective units. There are other variables in the dataset relative to the equipments' frequency and offset not described here. The data is given for a 10-minute average period.

Descriptor	Description
Min_Windspeed1 [m/s]	Minimum wind speed – sensor 1
Max_Windspeed1 [m/s]	Maximum wind speed – sensor 1
Avg_Windspeed1 [m/s]	Average wind speed – sensor 1
Var_Windspeed1 [m/s]	Variance wind speed – sensor 1
Min_Windspeed2 [m/s]	Minimum wind speed – sensor 2
Max_Windspeed2 [m/s]	Maximum wind speed – sensor 2
Avg_Windspeed2 [m/s]	Average wind speed – sensor 2
Var_Windspeed2 [m/s]	Variance wind speed – sensor 2
Min_Winddirection2 [º]	Minimum wind direction – sensor 2
Max_Winddirection2 [º]	Maximum wind direction – sensor 2
Avg_Winddirection2 [º]	Average wind direction – sensor 2
Var_Winddirection2 [º]	Variance wind direction – sensor 2
Min_AmbientTemp [ºC]	Minimum ambient temperature
Max_AmbientTemp [ºC]	Maximum ambient temperature
Avg_AmbientTemp [ºC]	Average ambient temperature
Min_Pressure [hPa]	Minimum pressure
Max_Pressure [hPa]	Maximum pressure
Avg_Pressure [hPa]	Average pressure
Min_Humidity [%]	Minimum humidity
Max_Humidity [%]	Maximum humidity
Avg_Humidity [%]	Average humidity

Min_Precipitation [mm]	Minimum precipitation
Max_Precipitation [mm]	Maximum precipitation
Avg_Precipitation [mm]	Average precipitation
Min_Raindetection	Rain sensor
Max_Raindetection	Rain sensor
Avg_Raindetection	Rain sensor
Anemometer1_Freq [Hz]	Anemometer sampling frequency - sensor 1
Anemometer1_avg_Freq	Anemometer average sample rate – sensor 1
Anemometer1_offset [m/s]	Anemometer sensor offset error – sensor 1
Anemometer1_corrGain	Anemometer gain correction factor sensor 1
Anemometer1_corrOffset	Anemometer offset correction sensor 1
Anemometer2_Freq [Hz]	Anemometer sampling frequency - sensor 2
Anemometer2_avg_Freq	Anemometer average sample rate – sensor 2
Anemometer2_offset [m/s]	Anemometer sensor offset error – sensor 2
Anemometer2_corrGain	Anemometer gain correction factor sensor 2
Anemometer2_corrOffset	Anemometer offset correction sensor 2
AirRessureSensorZeroOffset [hPa]	Pressure sensor offset
Pressure_avg_freq [Hz]	Pressure sensor sampling rate