Aquarevo Weather Station

1. **Anemometer**
Measures the wind speed in m/sec

2. **Wind vane**
Measures the wind direction in degrees

3. **Air temperature and relative humidity sensors**
Measures the air temperature in °C and relative humidity in %

4. **Data logger and battery pack**
Battery pack supplies power to all the sensors and data logger; data logger stores the sensor data for extraction

5. **Infrared radiometer**
Measures ground surface temperature

6. **4-component net radiometer (incoming and outgoing longwave and shortwave radiation)**
Measures the incoming and outgoing longwave and shortwave radiations in W/m²

7. **Solar panel**
Collects solar energy for charging the battery pack

8. **Soil moisture, soil temperature and soil heat flux plate**
Measures the volumetric water content of the soil in %; soil temperature in °C; and the soil heat flux in W/m²

9. **LoRa comms module**
Transmits data from sensor node to the OneBox® + controller via LoRa comms network

10. **Ambient light sensor**
Measures ambient light intensity in Lux

Project partners

South East Water

CRC for Water Sensitive Cities

THE UNIVERSITY OF MELBOURNE

South East Water
Weather Station
Urban Cooling Research

South East Water
Environmental Monitoring Sensors
Urban Cooling Research