

Weather-Station wireless meteorological data collector



Description

Obvius, the leader in cost effective data acquisition and wireless metering solutions that brought you the all-new A8812-x AcquiSuite DR™ data acquisition server, now introduces the wireless weather station providing high performance and low cost for meteorological sensing, ideal for:

- Solar Applications
- Boiler and HVAC efficiency verification
- Mission Critical Facilities
- Other weather dependent processes

The system incorporates wireless Modbus communication, allowing for simple integration into existing metering systems. Resulting in the simplicity of installation and the lowest total installed cost for logging meteorological data with the option to choose from:

- Solar Radiance
- Wind Direction and Speed
- Temperature and Relative Humidity
- Barometric Pressure
- Rainfall and Leaf Wetness

Applications

- Solar Applications
- Facility process verification
- Mission Critical facilities
- Processes dependent on external weather conditions
- Monitoring performance of building systems (e.g., chillers, boilers, fans)

Easy installation saves time and money

- Simple “plug and play” connectivity to standard Modbus meters minimizes installation time and costs
- “Flex” I/O inputs provide easy connections for analog, pulse and resistance sensors
- Integration with the R9120 ModHopper allows for wireless RS 485 communications
- Modhopper self optimizing network is able to automatically detect and optimize routing paths without the need for a central PC or configuration software
- Seamless integration with the Acquisuite data acquisition server

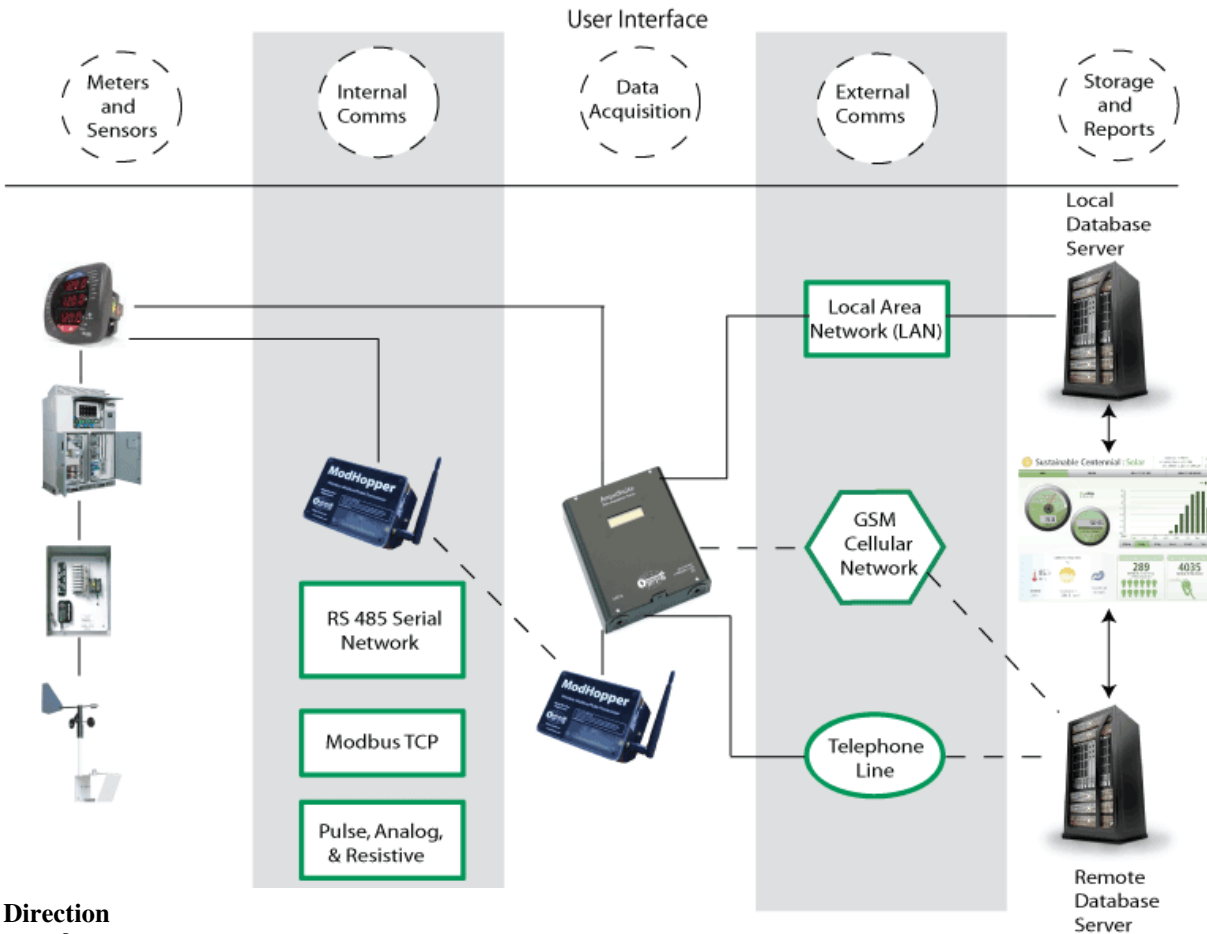
Benefits of Integration with Acquisuite

- Internet display of weather patterns and key building parameters through Buildingmanageronline.com
- Buildingmanageronline.com™ allows authorized users to see building and other performance related data in an easy to use graphical format
- BMO site provides storage, display and downloads of historical data in a secure SQL database
- Users can be notified of alarm conditions in any or all monitored points
- Open protocols provide connectivity to any energy management or building automation software

Flexible communications and wireless connectivity

- All data is stored at the site in nonvolatile memory, insuring protection of valuable information in the event of power loss
- Optional on-board ModHopper (R9120-x) for wireless RS 485 communications (consult factory)
- A8812-1 provides two communication options: Local Area Network (LAN) or phone line
- A8812-GSM replaces the standard phone modem with a GSM/GPRS modem for cellular data transfer

By integrating the Weather station with the AcquiSuite™ and Modhopper subsystems, users are able to bring “plug and play” capability to the meteorological market, dramatically reducing the time and cost associated with integrating such a system into an existing monitoring system as it automatically detects and configures Modbus devices in just seconds reducing installation time and costs.



Sensor Specifications

Wind Direction

Min Range 0
 Max Range 360
 Make and Model as Custom
 Preconfigured Units as Custom
 Engineering units Degrees
 (for your use only, not to be entered on the Acquisuite)
 Azimuth: 360° mechanical, 355° electrical (5° open)
 360°/0°=North 90°=East 180°=South 270°=West

Wind Speed

Min Range 0
 Max Range 100
 Make and Model as Custom
 Preconfigured Units as Custom
 Engineering units MPH
 (for your use only, not to be entered on the Acquisuite)
 Gusts up to 220 MPH

Temperature

Min Range -40
 Max Range 122
 Make and Model as TXO -58/122 temp
 Preconfigured Units as Custom
 Engineering units Degrees F

Humidity

Min Range 0
 Max Range 100
 Make and Model as HW Humidity
 Preconfigured Units as Custom
 Engineering Units %RH

Pyranometer

Min Range 0
 Max Range 1562.5
 Make and Model as Custom
 Preconfigured Units as Custom
 Engineering Units Watts
 (for your use only, not to be entered on the Acquisuite)
 Operating Temperature -40°F to 131°F

