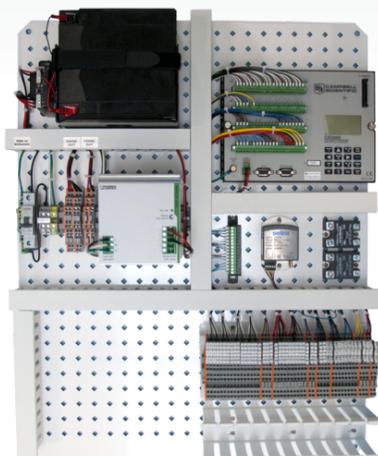




WMS100

Wind Energy Meteorological Monitoring System



Best in Class MET Station

Permanent MET for Operational
Performance Assessment

Overview

The WMS100 is a purpose built wind measurement system specifically designed for operational wind power plants. The WMS station delivers data shareholders, site operators and power off-takers with accurate real-time and historical meteorological data for operational performance assessment.

Campbell Scientific measurement systems are built with a focus on high quality hardware using best-practice system design and manufacture. By consistently providing highly accurate and extremely reliable wind measurement data, the

WMS100 has become the MET station industry standard when measurements matter.

The WMS100 is commonly used for these applications:

- ▶ Performance assessment of operational site
- ▶ SCADA permanently integrated MET station
- ▶ Site calibration
- ▶ MET and turbine power synchronization

Benefits and Features

- ▶ Industry's most rugged, reliable, and flexible measurement platform
- ▶ Campbell Scientific CR1000X Measurement and Control Datalogger included
- ▶ Delivered field-ready with plug-and-play features—no programming necessary
- ▶ Offered in Campbell Scientific standard or customized client specified designs
- ▶ Real-time data collection via Modbus, DNP3, JSON, XML, and/or other standard M2M protocols supported
- ▶ Historical data collection via FTP(s), email, PakBus, and/or software solutions supported
- ▶ Advanced security functions provided that protect proprietary data stored on-site and during transfer

Detailed Description

The WMS100 provides precision measurement capabilities in a rugged, battery-operated package. It consists of a measurement and control data logger, terminal block for

sensor connection, communications hardware, and power supply. Standard operating range is -25° to +50°C; an optional extended range of -55° to +85°C is available. Although offered



as a turn-key package, nearly every aspect of the system is customizable to meet your exact needs and specifications. Building on a Campbell Scientific data logger platform yields the industry's most versatile, robust, and accurate MET systems available.

The WMS wind monitoring system supports nearly all sensors used in the wind energy industry, including sensors that are user-supplied or purchased through Campbell Scientific. The WMS100 supports sensors at any height, junction boxes, down-tower cabling, and many other customer-specific measurement configurations.

Optional measurements that may be made using the WMS100 include the following:

- ▶ Three-dimensional wind speed and direction
- ▶ Ice detection and surface moisture
- ▶ Electric field and lightning warning
- ▶ Solar radiation
- ▶ Remote sensing LIDAR
- ▶ Turbine electric power

For comprehensive details, visit: www.campbellsci.com/wms100 



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