

Vaisala MetCast Observation Console MCC301



Features and Benefits

- Displays and logs data from Vaisala Automatic Weather Station (AWS)
- Easy to install and operate
- Provides data for various weather applications
- Visual and audible alarms
- Remote client PC display option

Application

Vaisala MetCast Observation Console MCC301 is PC software designed for use with the Vaisala Automatic Weather Station (AWS). It is used for displaying and storing the meteorological measurement data needed for planning weather-critical operations and examining longer-term weather phenomena or climatological trends.

Real-Time Display

Vaisala MetCast Observation Console presents meteorological data in numerical and graphical formats. Users can choose from a range of engineering units when displaying the latest measurement values on the easy-to-use default screen layout. There is also an option to have modified data labels and data fields if some measurement values need to be added to or removed from the display. Depending on the AWS in use,

a complete customization option is available to tailor the screen layout to the specific needs of the customer.

The default weather parameters monitored include wind speed and direction, visibility and present weather, air temperature and relative humidity and dew point, atmospheric pressure, precipitation, cloud height, solar radiation, soil and water temperature as well as water level. Modifications to display other weather parameters are also available depending on the AWS in use. Wind speed and direction can be displayed using instant, two-minute or ten-minute statistics. Observation data can also be displayed as a real-time graph.

Visual and audible alarms provide warnings of critical weather conditions or other important issues such as sensor or system failure. It is also possible to create custom alarms based on selected parameters.

Data Archiving and Viewing

The application automatically stores data chronologically as ASCII log files, and continues to run in the background so that data collection can continue even when the user interface is closed. The ASCII log files can be exported to external applications and collected data can also be viewed in tabular or graphical formats. The overall data collection status is shown in the operational status report.

Data Distribution

The data distribution feature allows several client PCs to gather weather data from the master PC.

The file transfer feature allows the latest data files to be transferred to up to two different servers using FTP protocol.

Technical Data

Minimum Hardware Requirements

Personal Computer	Desktop/Laptop
Processor	2.0+ GHz
RAM	1024 MB
Hard Disk Space	Software: 100 MB Data storage 1 GB/Year
Ports	Ethernet/LAN Serial/USB port (may require an adapter)
Monitor resolution	1024 x 768 pixels (or higher)
Drives	CD-ROM required for installation

Operating Systems

Windows 7, Windows XP, Windows 2008 Server,
Windows 2003 Server

Communication options between AWS and PC

Serial connection via RS-232 port
Serial connection via RS-485 (requires converter)
USB connection via RS-232/RS-485 (requires converter)
TCP/IP via Ethernet (requires converter)

Features

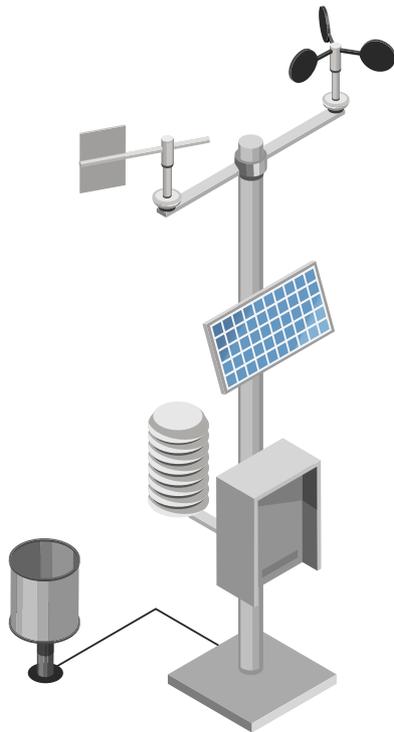
Monitored default weather parameters:
Wind speed and direction
Visibility and present weather
Air temperature humidity and dew point
Atmospheric pressure
Precipitation
Cloud height
Solar radiation
Soil and water temperature
Water level

Data collection:
Automatic background data collection
Data validation
Statistical calculations

Real-time display:
Text boxes, graphs, and labels
Alarms
Wind Rose
Full-screen mode

Data logging and viewing:
Received data log
Observation parameter log
Event log
Tabular view
Graphical view
Operational view

Data distribution:
Support for client PCs
FTP client support



*Vaisala MetCast
Observation Console
MCC301 can connect
with an AWS via LAN,
wireless GPRS, or USB/
serial connections with
ports RS-232 or RS-485.*



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