

IMS Lite

Integrated Meteorological System is MicroStep-MIS open meteorological system, suitable for building of national meteorological networks, airport weather systems, and meteorological stations for commercial use.

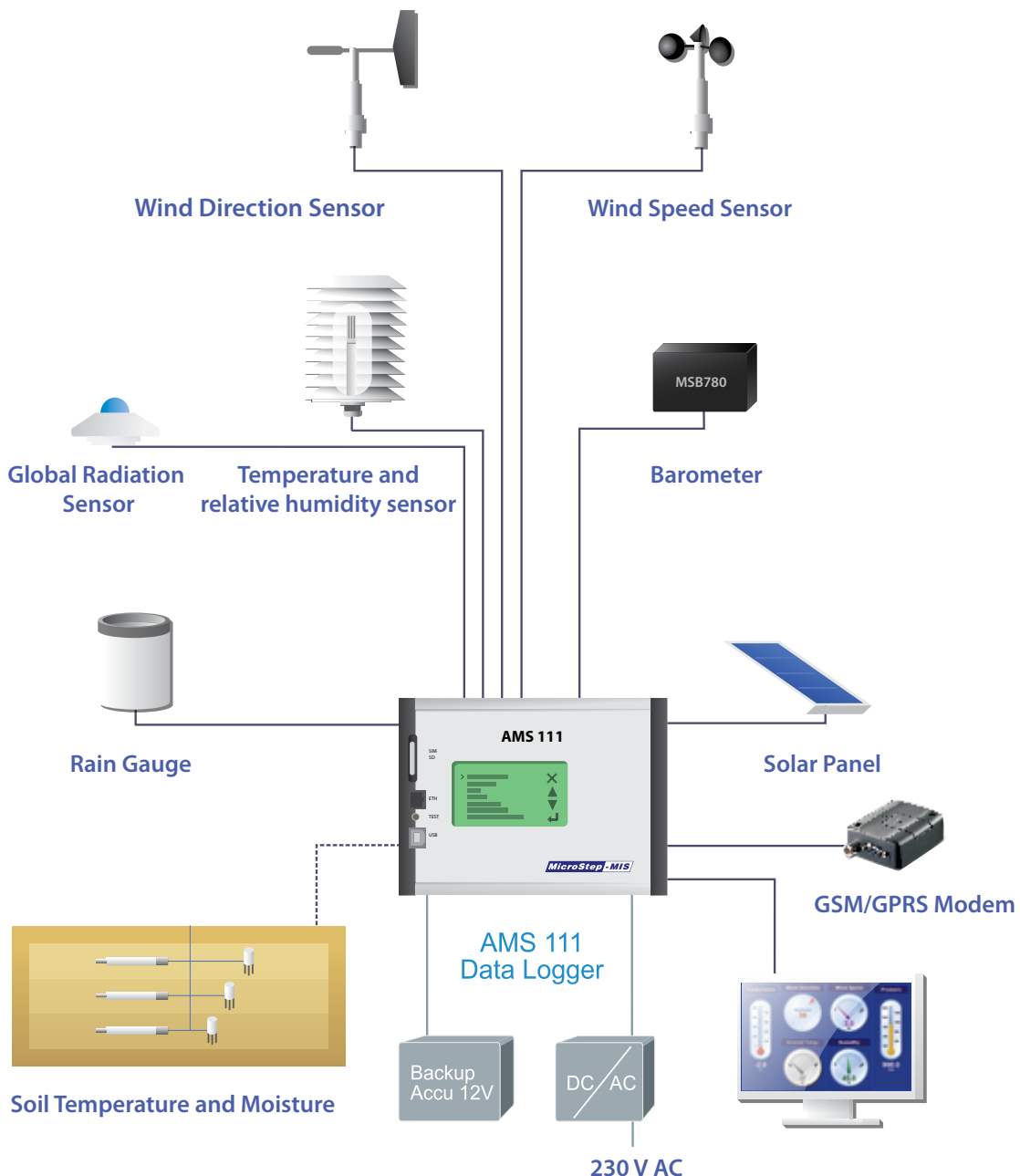
IMS LITE is the version of Integrated Meteorological System application software designed to interface the automatic weather station AMS 111. It performs continuous measurement and/or data collection from connected automatic weather station, data processing (quality control, recalculations) and archiving; and provides user with the real time

screen with current data as well as modules for data export into Microsoft Excel / OpenOffice.Org Calc and for displaying data time series in the form of charts.

The IMS LITE can be optionally upgraded to IMS Observer's PC with a support of WMO codes (SYNOP, METAR, etc.) as well as with support of data protocols and formats for data exchange over GTS, AFTN network or other media (asynchronous lines, dial-up lines, FTP, PPP, e-mail).

An integrated part of the IMS LITE system is a built-in web server providing access to the data over the intranet/Internet.

IMS Lite System Scheme



IMS Lite

Measurement

IMS LITE can interface numerous types of sensors. It is designed to measure, calculate and process different meteorological quantities as temperature (dry, surface, soil, soil under vegetation), wind speed and direction, pressure (station, QNH, QFE, QFF), relative humidity, precipitation (indicator and amount), sunshine duration, solar radiation, and is open to adjust for measuring and processing of other quantities, if needed.

- Interfaces to the various sensors and data loggers (RS232, RS422, TCP and UDP).
- Quality control, verification of measured data

Data Presentation

IMS LITE stores the measured as well as calculated data in the built-in SQL database. The data are presented to the user in the form of:

- Real-time weather data display
- Data exported to text form (ASCII, log-files)
- Data exported into Microsoft Excel and/or OpenOffice.org Calc
- Visualization of measured data in graphic representation

The system is delivered in English version as standard; however it can be localized upon request to support multiple language versions simultaneously.

Alarms

IMS allows configuring rich set of alarms including:

- Diagnostics of data logger and sensor errors
- Quality control of measured data (limits, internal consistency)
- Communication errors

Configuration

The user-friendly interface enables configuring the IMS software to meet the requirements of particular stations setup.

- Station metadata
- Data logger and sensor parameters
- Communication line setup

Remote Access

The web-server built in the IMS LITE allows remote access to the data over Internet/Intranet as well as provide user with full maintenance capabilities including download of measured data, maintenance of the sensors and data loggers and software upgrade.

System requirements

- Standard Intel PC compatible
- Microsoft Windows XP/Vista or Linux operating system

