STATION FOR OBSERVING AND MEASURING WEATHER PARAMETERS

AGH – PROJECT ANALYSIS

STATION FOR OBSERVING AND MEASURING WEATHER PARAMETERS

The station was installed at the roof of the Solar-Wind Laboratory of the University of Science and Technology in Cracow.

The station is equipped in power supply system, which can work constantly the whole year. Data from the station is transferred to the server through the GSM/GPRS network. Dedicated application allows saving data in a MySQL database. Collected data will be used to create a forecast module, which will forecast meteorological conditions around the weather mast in a real time and allows to carry out some short-term forecasts for electric energy production for such unit.

Customer:
AGH University of Science and Technology

Location:
AGH Campus, Cracow

Design:
Observing and measuring weather parameters station

Equipment:
Digital data logger

2 wind velocity sensors #40C

2 wind direction sensors #20P

1 rain gauge RG1

1 electronic thermohygrometer THP100

2 solar radiation sensors (real and reflected) LP02

1 air pressure sensor SB100

WORKS

- Delivery and assembly of complete meteorological station
- Delivery and assembly of equipment for collecting measurement data
- Sampling rate of sensors – 1 second
- Data transmission to the Client’s server

SUMMARY

- Measurement of current meteorological situation on the rooftop.
- Integration of the datalogging system with the database server.
- Data transmission through GSM/GPRS

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