

WEATHER MEASUREMENT SYSTEM "NJORD"

The weather measurement system "Njord" is a cold climate system based on the advanced communications platform "Odin".

The weather measurement system NJORD is developed for field collection of weather data. The data is collected via modem or other suitable data communication, to one or more centres where the information is processed, stored and displayed.

The weather measurement system NJORD is developed and designed to be stable and reliable and at the same time be very flexible with high quality, serviceability and long-lifetime (>10 years).

The system will always be custom-tailored to meet the specific needs.



The weather measurement system NJORD handles sensors (often heated) and equipment as described below:

- Wind, speed and direction
- Road surface temperature
- Air temperature
- Air pressure
- Humidity
- Dew point temperature
- Precipitation
- Visibility
- Ice load
- Multi weather sensors
- Ground frost
- Road condition and conductivity
- Solar radiation
- Digital images (color and IR)
- Communication over serial line, modem, radio, GSM/GPRS etc.

The system is designed to integrate with almost any kind of sensor and communication solution on the market and the software can be modified and updated remotely. To prove the flexibility is to mention that the successful technical solution has led to use in for example road weather applications, measuring on top of wind turbines, medical scanners and navy stealth boats.



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APPLICATIONS

The weather measurement system NJORD is suited for measurement in demanding and icing conditions around the world:

- roads,
- railway,
- airports,
- ski resorts,
- wind turbines/wind mills,
- tall telecom masts.

DATA COLLECTION

The data from connected equipment is first stored locally in the field station and can then be collected or sent via the chosen communication link (wireless through GSM/GPRS/radio/modem or over serial line) to office. The collection interval is flexible and will be configured at the commission.

Combitech provides the data collection service, storing of data and presenting the data to end users as web applications on Internet/ Intranet or as subscribed SMS messages. Information can also be made available to the general public on the Internet.



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