

Setting up a remote meteorological system



> OBJECTIVE

- > Monitor all the meteorological data from the control centre
- > Analyse the meteorological data remotely
- > View the data concerning several different geographical locations simultaneously
- > Benefit from accurate local information in real time
- > Collect and manage your meteorological parameters without assistance

> STRATEGY PROPOSED

- > Measure the meteorological parameters
- > Transfer the measurements to the harbourmaster's office located more than one kilometre from the measuring equipment
- > Record and back up all the meteorological data
- > Benefit from equipment relaying the meteorological data to all your remote sites
- > Work independently with a comprehensive, high-performance system

> SOLUTION CHOSEN

- > Installation of a complete set of equipment (sensors, radio modem, weather data collection units) between the seawall and the Harbourmaster's Office for real-time measurements of:
 - > The wind speed and direction,
 - > The atmospheric pressure,
 - > The outside temperature,
 - > The relative humidity,
 - > The dewpoint.
- > Use of the STN modem output on the CM100D weather data collection unit for remote transmission of the data measured
- > Programming, remote reading, diagnostics and analysis on PC with the CM100 processing software

Energy production,
transmission & distribution

Energy efficiency

Network monitoring

METEOROLOGICAL
MEASUREMENT

Audit & Troubleshooting

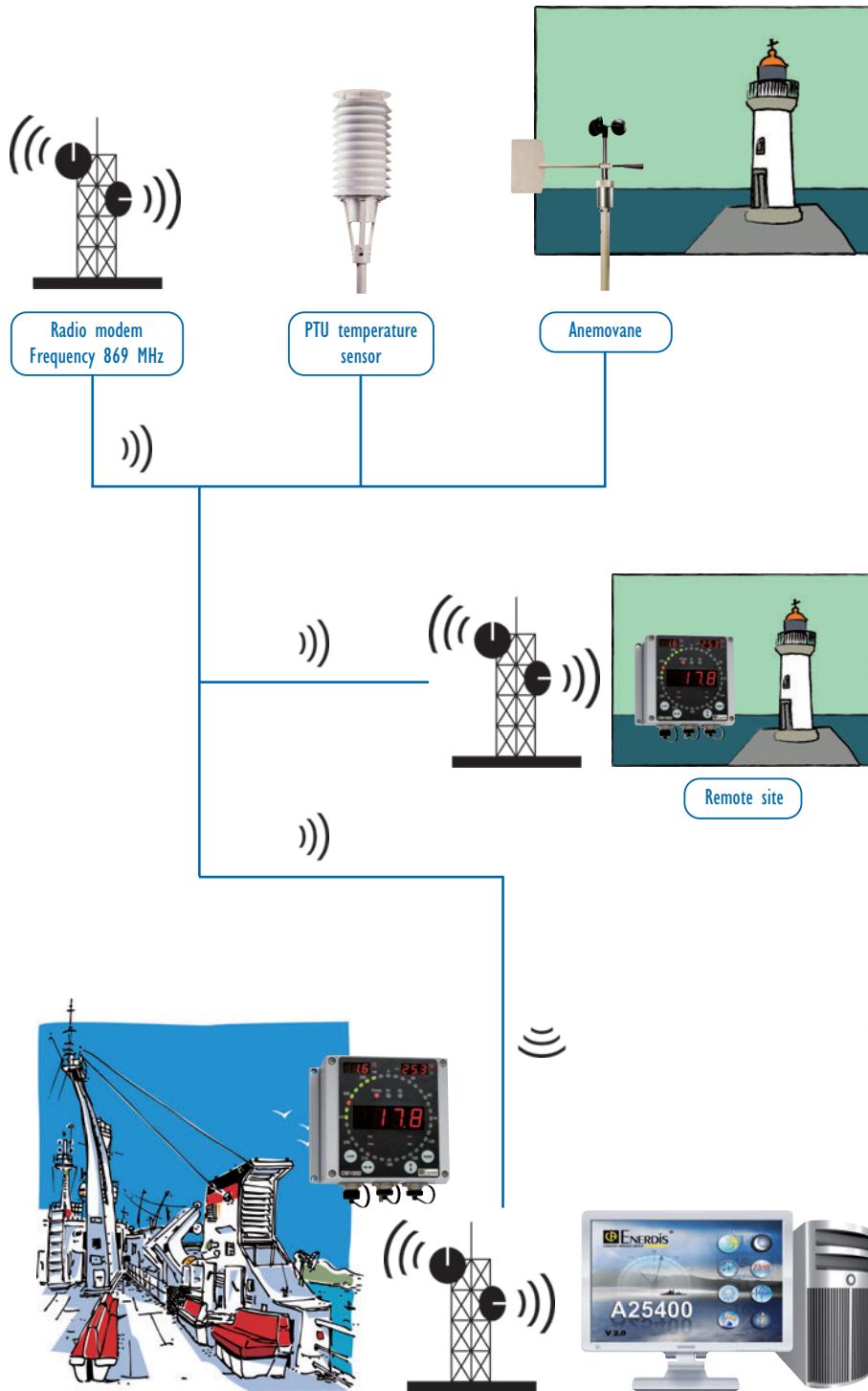


 **Savings** on the cost of a weather service

 **Upgradability** by adding new sensors

 **Total independence** for data administration

> DIAGRAM OF THE SOLUTION



> ASSOCIATED SERVICES

- ADVICE ON EQUIPMENT DEFINITION
- COMMISSIONING
- INSTRUMENT CONFIGURATION
- OPERATOR TRAINING

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> ADVANTAGES OF THE SOLUTION

> AN EXTREMELY VERSATILE MEASUREMENT UNIT ALLOWING:

- acquisition of up to 100 programmable measurement channels,
- remote reading and programming via a built-in Ethernet link or STN modem,
- Up to 4 "and/or" alarm outputs to monitor overruns of the tolerance thresholds on an installation

> A CHAIN OF TAVID 100 DIGITAL SENSORS OFFERING :

- greater accuracy when measuring,
- the possibility of having considerable distances between the element that first measures the information (anemometer, vane, pressure or temperature sensor) and the element collecting the data (acquisition unit).

> A TURNKEY SYSTEM WITH ALL THE ASSOCIATED SERVICES INTEGRATED



Simultaneous display of weather data



A "toughened" version made of cast aluminium for severe environments