

CG APPLICATIONS

CARLO GAVAZZI



Application Note: September 1st 2006

Market involved : Electricity , Energy

Product : WM496AV53HXXE1D1O4M or PQT90AV53HXXE1D1O4M

Customer : Utility, Panel Builders

Subject : Mini/micro-hydropower plants

CUSTOMER ISSUE :

The need to use more and more renewable energy mainly in distributed generation systems lead to a notable increase in the development of new mini- and micro-hydroelectric power plants.

The main parameters related to the power quality and the amount of generated energy of the different plants are to be remotely checked and logged from a common control room.

Not being part of the systems owned by medium or big electricity suppliers, generally a communication network is not available.

OUR SOLUTION:

The web is the way to have a link among different sites and a central control room without the expensive costs of a dedicated communication network.

Using WM4-96 (or PQT-90) as power quality analyser and data logger together with the AR1060 Ethernet module, each plant can be easily connected to a central control room, having easy access to the parameters the user is interested in.

ACHIEVED BENEFITS:

- Plug and play modules allowing the existing instruments to be easily connected to the LAN or to the web without replacing the equipment
- Remote display of instantaneous variables and meters
- All the history of the installation and the consumption trends can be analysed directly or by exporting the data to Excel or other spreadsheets, saving the cost of a SCADA software

