

# CG APPLICATIONS

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**Application Note :** October 26<sup>th</sup> 2006

**Market involved:** Water distribution

**Product :** WM1496AV53HDG

**Customer :** Panel Builders

**Subject :** Monitoring the electrical variables in the Water distribution plants

## CUSTOMER ISSUE :

To control a water distribution and/or treatment plant, a number of parameters are acquired and managed by a PLC.

It is necessary to have a power analyser able to transmit via Profibus to the PLC all the electrical variables (to keep them under control) and the energy consumptions (to monitor the costs of the plant).

## OUR SOLUTION:

WM14-96, "Basic" version, is now optionally equipped with a Profibus DP V0 serial port, which allows the most popular PLC's to communicate through this process field bus.

In addition it also stores the peak values of the demanded power and its inputs are galvanically insulated, so that the external CT's can be grounded according to the different regulations.

## ACHIEVED BENEFITS:

- Only 45 mm depth behind the panel.
- Both 9 pins and screw terminal block bus connections to have a fast and reliable connection with the specific Profibus cable, saving 20 to 25 Euros per instrument.
- Hour counter meter.
- Galvanic insulated measuring inputs.
- Extended power supply (90 to 260VACX/DC) to meet different needs.
- UR, CSA Approvals (future).

