

Press Release

WM50: THE NEW COMPACT BRANCH CIRCUIT MONITORING SOLUTION FOR DATA CENTRES

Modular and expandable architecture supported by easy and intuitive configuration.

Lainate, September 2017 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture and marketing of electronic equipment, today presents its new WM50 branch circuit monitoring system.

The WM50 is a complete branch circuit monitoring solution, able to measure up to 96 channels by means of up to eight 12-channel split core current transformer blocks. All data can be transmitted to the BMS or data centre monitoring system via either Modbus RTU or TCP/IP, by selecting the required module.

The WM50 is also a class 0.5S (kWh) power analyser which measures all the electrical variable mains, including the harmonic distortion (THD and single harmonics) of current and voltage. The measurement and control of the mains of the distribution unit is completely managed by the WM50, avoiding the installation of any additional power analyser. The variable mains can be controlled by 16 virtual alarms and optionally linked to digital outputs. The variables are visible in a wide LCD display and can be transmitted by means of one of the available protocols, Modbus RTU or TCP/IP.

“The system configuration is extremely fast and intuitive, following the graphical leads of its UCS software or APP and any different topological panel configuration can be easily made,” says Andrea Bernardi – International Product Manager. “The launch of this complete branch circuit monitoring solution will further strengthen our position in the market, since it provides customers with accurate and reliable multi-channel measurement and control by means of a fast and error-free installation and commissioning system, also suitable for retrofit installations.”

Developed by our Competence Centre in Italy, the WM50 branch circuit monitoring system is designed to meet the requirements of metering in Conventional Energy and in Building Automation markets, mainly in data centres and critical load monitoring applications, such as web-farms, banks, insurance companies, hospitals, universities or wherever the control of multiple loads is needed.

Main technical features

WM50 – Multi-channel power analyser

- Class 0.5S (kWh) according to EN62053-22,
- Accuracy $\pm 0.2\%$ RDG (current/voltage)
- Instantaneous variables readout: 4x4 DGT, energy readout: 10 DGT
- Variables: all variables including V and A THD and single harmonics (up to 32nd harmonic)
- Energy measurements (imported/exported): total kWh and kvarh; partial kWh and kvarh, 6 tariffs
- Run hour meter (8+2 DGT), clock and date
- Data and event logging
- Optical port for programming parameters and data reading
- Optional modules for I/O and communication

Branch circuit power analyser

- Up to 96 channels: kWh, W, var, VA, PF, A, THD A
- Average and max, min and max average of all the main variables

ABOUT CARLO GAVAZZI AUTOMATION

Carlo Gavazzi Automation is an international electronics group with activities in the design, manufacture and marketing of electronic equipment targeted at the global markets of industrial and building automation.

Carlo Gavazzi Automation provides customers with technologically innovative, high quality and competitive solutions, in compliance with their requirements and expectations through its 22 National Sales Companies in Europe, the Americas and Asia & Pacific, operating with its production sites in Denmark, Italy, Malta, Lithuania and China.

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