

DMG1 REG ZBIR

REMOTE SYSTEM FOR ENERGY MEASUREMENT, LOAD PROFILE REGISTRATION, DATA COLLECTION AND PROCESSING

DMG1 REG ZBIR is remote system for energy measurement and load profile registration in power stations as well as in large consumers. System is based on integrated digital watt-hour meter-logger DMG1 REG capable for local and remote communication. Meter DMG2 REG can be used instead of DMG1 REG meter when lower measurement accuracy is acceptable. The other system characteristics remain unchanged.

System **DMG1 REG ZBIR** collects registers containing measured energy from remote locations and calculates total delivered energy for each tariff register in defined time for both energy flow directions.

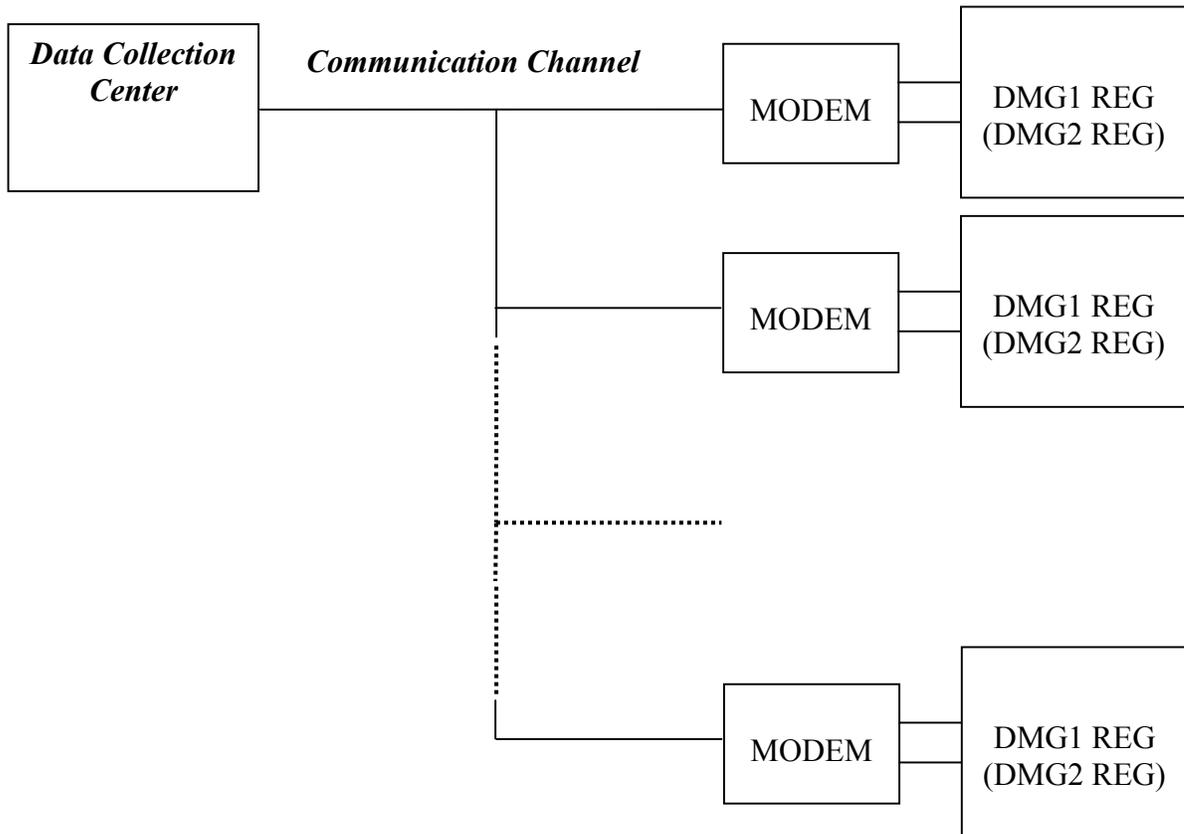
System **DMG1 REG ZBIR** measures and collects load profiles of 15-minutes average power from remote watt-hour meters. Each data is saved together with real time when data is measured. Such concept provides addition of time synchronized load profiles and obtaining the total load profile for all remote measurement points. Total load profile contains unique maximum for all remote locations together.

System **DMG1 REG ZBIR** consists of integrated digital watt-hour meter-logger DMG1 REG or DMG2 REG placed in remote locations, modems for public communication systems like GSM/GPRS or PSTN, and PC software ENELregZBIR for data collection and processing. Remote system DMG1 REG ZBIR may be used for local data collection where modems are removed and connection between meters and data collection center are made by 485 BUS.

PC Software ENELregZBIR can be installed in one or more data collection centers.

Software ENELregZBIR has the next functions:

- computer settings;
- creation and maintenance of tables containing parameters for measurement places and watt-hour meters;
- single or sequential collection of data from different measurement places and writing into database;
- survey of collected data referring to measurement points or used watt-hour meters;
- report generation in txt or excel formats as well as graphic output.



System **DMG1 REG ZBIR** is based on measurements of energy and load profile in the watt-hour meter-logger DMG1 REG or DMG2 REG. System gives full two-way local and remote communication with each measurement location in purpose of data loading and collection. Measurement and communication devices are separated. Data are protected. System installation and maintenance are fast and easy.

Multifunction digital watt-hour meter-logger DMG1 REG measures active, reactive and apparent energy and 40 days load profile of 15-minutes powers in accuracy class 0.2/0.5. Meter contains real time clock and communication port IEC61107 intended for local and remote communications. Meter DMG2 REG has the same functions and characteristics besides accuracy class.

Mobile or wire telephony public systems are preferred communication systems for remote data collection. GSM/GPRS and PSTN modems are used.

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