Equipment manufacturing, installation, maintenance













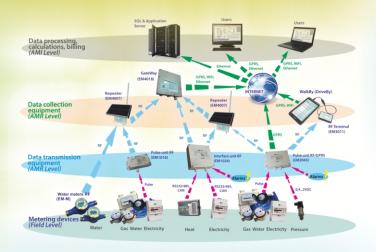








Automatic Meter Reading (AMR), Advanced Metering Infrastructure (AMI) systems





- Wireless technologies for automated data collection;
- Data transfer from any metering devices (water, gas, etc.);
- WalkBy/DriveBy and Fixed Reading Management Systems;
- Wireless radio frequency platform 433/865/868/902 MHz;
- Data transmission into a central database (SQL Server);
- Consumption data collection in real-time;
- Lets to track the consumption from the home;
- Can alert the costly leaks and theft detection;
- Improved asset management.



40, Bolshaya Semenovskaya str., Moscow, 107023, RUSSIA Tel. +7 495 162 9372, fax +7 495 162 9375

info@ecomatrix.pro www.ecomatrix.pro



advanced resources management solutions



Data Transmiting AMR equipment



Class C water meters with RF radio transmitters (EM-M)

RF transmitters are integrated into an electronic registers of water meters - MultyJet, IP68, class C, Dn15, 20, 25, 32, 40, 50 mm. Meter accurately transmits the water consumption data, eliminates need for external wiring. EM-M meters provide accurate capabilities for water management - reading online, back flow consumption, tampering and sabotage alarm, waters leakage report etc. EM-M meter has the lithium battery for more then 12 years of operation.



- 1, 2 current reading, m³
 3 float rate, m³/h
- 2 4 alarm indicator
- 3 5 battery charge value
- 6 back flow indicator 7 - receive RF indicator
- 8 rotation indicator
- 9 transmit RF indicator



External RF radio transmitter Pulse RF unit (EM1016)

External RF radio transmitter is used for data transmission from meters of water, electricity and gas with pulse outputs. The unit has 4 built-in pulse inputs and the lithium battery for more then 12 years of operation. Each input has its own programming parameters, which are configured by RF Terminal (EM3011).



External RF/GPRS transmitter Pulse RF/GPRS unit (EM2043)

External unit for transfering data by RF and/or by cellular communication (GPRS, 2 SIM cards) from water, electricity and gas meters, with pulse outputs, and from the connected pressure sensor. The unit has 3 built-in pulse inputs and 1 analog input from pressure sensor. Each input has its own programming parameters, which are configured by RF Terminal (EM3011). Internal lithium battery for more then 6 years of operation.



External RF transmitter Interface RF unit (EM1024)

External radio transmission unit is used for data transfer from meters of water, heat, electricity and gas or other devices with RS232/485/CAN interfaces. Power supply 220/110 VAC, 120mA. The unit has built-in RS232, RS485, CAN interfaces, and also 4 digital inputs - from alarm systems devices.

Data Collection AMR equipment



Repeater RF (EM4007)

In Fixed Reading Management System Repeater RF can receive RF transmissions from meters and retransmit them to the concentrator GateWay. Repeater RF works on battery with 2 options of charging - from 220/110 VAC or from solar battery.



Concentrator Gateway (EM4018)

The concentrator GateWay is used for data collection by radio channel from meters and repeaters, for storage in non-volatile memory and for transfer by various communication channels (GPRS, WiFi, Ethernet etc.) to the system server. The concentrator GateWay can receive data from thousands of meters.



WalkBy/DriveBy Reading Systems (RF Terminal EM3011)

In WalkBy Reading System a user collects data from AMR meters using RF Terminal (EM3011) - the portable RF transceiver with the built-in antenna. EM3011 is connected to the computer or a tablet with usb cable. DriveBy Reading System is installed in a vehicle. The reading device automatically collects the meter readings while driving.



Data Processing, billing, calculations, AMI Software



