



## **Subtask 5- FI technology database**

### **FI Tech Case #2 MX Electrix**

Company contact information

Mr. Seppo Vehviläinen  
MX ELECTRIX Oy  
P.O.Box 10  
FI 36600 Pälkäne  
Finland  
Phone: +358 3-5784 800  
Fax: +358 3-5784 844  
E-mail: [electrix@electrix.fi](mailto:electrix@electrix.fi)

Website: [www.electrix.fi](http://www.electrix.fi)

MX Electrix has manufactured power measuring equipment for over 15 years. Our long-term cooperation with experts and research institutes has helped us to understand the needs of our customers and to develop our experiences into solid expertise. Electrix provides solutions for today's needs and at the same time predicts future development. We offer wide variety of products for measuring power consumption and for monitoring power quality. Our total solution includes measurement technique solutions, analysis of measured data, start-up training and strong technical support.

## PRODUCTS

MX Electrix Oy provides measuring devices and systems for power consumption measuring and quality monitoring to network companies, industry and buildings. Our production program ranges from digital power meters to process software. EQL™ is a complete electric power quality control system from measuring to reporting. With quality control meters it is possible diversified to analyze the quality factors of the delivery suspension. Power quality measuring service is one part of our operations. Portable measuring devices and stationary remotely readable hourly monitoring systems used for specifying the type load curve method are also included in our product offering. Measuring devices can be monitored remotely via Internet, phone line or mobile phone or locally with PC.



### EDPQ

Microprocessor based EDPQ-meters have versatile measuring facilities. Basic meters have always active and reactive energy measurements in both directions. Impulse output is a standard facility in all the EDPQ-series meters. Module based meters are easily expanded to versatile electric energy devices, remotely readable one hour energy metering systems or power quality monitoring meters. Also special values as 1A, 60Hz, 480V are available within normal delivery time.



[EDPQ meter's dimensions](#)

[Connection diagrams of EDPQ meters](#)

### EDMP

In either 1- or 3- phase measurement multipoint meter is an adjustable solution for its installation and space requirements. It is a total solution from measuring to invoicing. For application specific invoicing adding and subtracting actions can be accomplished in between measuring points with the meters. Measuring device can be read remotely and it is possible to receive invoicing data via Internet.

## EQL Power Quality Guard

EQL™ is a monitoring system for power quality in the network. It is a total solution for monitoring the power quality from power station to the customer. With EQL™ applications it is easy to manage and analyze the measured data. System processes representative reports according to EN-standards. Individual power quality monitoring meter can be read via portable computer. EQL™ -meters can be connected to phone or GSM networks and read to measuring database automatically and continually.

## Programs

We have with our cooperation partners developed versatile software for hourly monitoring and power quality purposes. EQL™-Online software is developed for local programming and reading of EDHSRML-meters for load and power quality monitoring. TRANSMIT-software is used for remote reading and data storing. The software includes load curve monitoring and versatile invoicing and tariff properties. Graphic monitoring softwares EQL™QR and EQL™e-Quality are suitable for graphic presentation and reporting according to EN50160 standard of quality monitoring data.

## Services

When choosing Electrix-product a customer receives a total solution, where also the future needs are taken into account. Electrix masters the power measuring techniques from the beginning to the end. In addition to meters we also provide measuring services. We are able to come on site to measure power quality and analyze results. In permanently installed measuring we provide reading, reporting and maintenance of measured data. We consider the customer's benefit also after the delivery. Training during the start-up and on software is included in all our software packages. Competent technical support is also an essential part of our services.

## Technical Support

The experience gained through working on the field for over 20 years and professional education give solid foundation on serving customers in start-up phase of measuring equipment and software. You can come to us also with every problem related to electric power and power quality measuring. Training and consulting for the customer is an essential part of our operation.

## Power Quality Monitoring

To establish the power quality we carry out the power quality measuring services. Versatile selection of measuring devices enables us to carry out both the power quality measurements and failure reports. In customer claims we come on site to carry out power quality monitoring. From the results the client gets a quality report and when needed a written advice how to solve the problem. We can also carry out measuring in cooperation with other experts.

## Product Development

The expectations of power business on measuring devices include higher performance and broader analysis software. Electrix answers to this challenge by constantly developing product range and therefore we invest more than 10 % of our annual net sales to the product development. Our goal is always to be technically and innovatively one step ahead of other manufacturers. Customer orientation is a corner stone for our product development. We take into account needs and operating experiences of our customers. Our company is closely involved in several extensive product development programs together with international and domestic research institutes and companies.