ENIP-2 is a series of multifunctional power meters for three-phase electrical networks. ENIP-2 is designed for metering and telecontrol in automated systems of electric power substations. ENIP-2 also can serve as a basic bay control unit.

The success of ENIP-2 is the result of the following three factors: rich functionality, high quality, and reasonable price. These three factors combined together with supply terms provide great opportunities for electric power system engineers, designers and maintenance personnel.

Outlined features increase observability of electric power systems, providing Smart Grids with state of the art automated process control systems.

High quality of measurements is provided by the application of specific processing algorithms. Reliable and fast data transmission from remote facilities is implemented using redundant interfaces and contemporary communication protocols.

ENIP-2 is connected to three- or four-wire network directly or through current and voltage transformers. ENIP-2 may be installed in protection compartments of enclosed switchgear, in panels and cabinets. Due to wide operating temperature range, ENIP-2 can be applied in unattended and non-heated facilities.

ENMI display panels are designed to be a human-machine interface of ENIP-2. ENMI connects to ENIP-2 easily with a single RJ45 patch cord.

ENIP-2 supports a range of communication protocols: Modbus RTU, Modbus TCP, IEC 60870-5-101, IEC 60870-5-104 and IEC 61850.

Equipped with four to eight digital inputs (depending on the chosen model) ENIP-2 is capable of processing the state of several switchgears and protection relays.

To control switchgears any model of ENIP-2 can be paired with an external ENMV module, or a model with three built-in digital outputs can be used.

ENIP-2 provides ease of both protocol configuration and firmware upgrade via USB-port, which can be used for measurement data transfer as well. No additional drivers are needed.

Connected to USB, ENIP-2 operates without auxiliary power supply. ENIP-2 can be configured from a PC with included software or built-in web-console.

ENIP-2 is a large family of devices that can be divided into three branches:
- a series of power meters in plastic housing for DIN-Rail mounting,
- a series of power meters in compact metal body,
- a series of phasor measurement units in plastic housing combined with a color LCD display for mounting on panels or cabinets.
The series of ENIP-2 in plastic case housing for DIN-rail mounting includes four models that differ in cost and capabilities.

The simplest meter comes with a single RS-485 interface to suit any low-cost solution. The most complex model comes with 2 RS-485 interfaces, 2 Ethernet ports, up to 8 digital inputs and 3 digital outputs. Additional communication interfaces may as well serve for pairing with external modules for extended digital I/O functionality and display.

The series of models in compact metal body is designed for use in 6–20 kV switchgear cells where only small devices can be installed. Single ENIP-2 can be sufficiently used as a bay controller unit. Apart from measurements, it provides remote signaling with digital inputs and switchgear control with electromagnetic relay outputs. This series has redundant data interfaces and power inputs to provide increased reliability.

This is a series of phasor measurement units (PMUs) that are used for building wide area monitoring systems (WAMS). WAMS opens new perspectives for:

- monitoring power grid state
- detecting and preventing further grid instabilities
- verifying power grid model
- analysing system failures.

Time sync, which is critical for PMU devices, is provided by the global positioning systems. ENIP-2 uses a built-in GPS-receiver, or is synchronized by an external ENCS-2 module.