econ
Ein Unternehmen der

econ sens3 –

Energy & power meter

Small, but incredibly powerful! Within the blink of an eye, the econ sens3 enables transparency of energy data. It is ideally suited for the entry into operational energy management and thereby for the preparation of an energy audit according to DIN EN 16247-1 or the certification of an energy management system according to ISO 50001.

The installation time for the hardware is just a few minutes - and completely uninterrupted. Rogowski coils or folding current transformers, which are extremely flexible in their application, are used for current measurement. Installation in existing systems and distribution boards is therefore possible without any problems.

A product for:
- All companies that want more transparency about their energy data and want to get involved in operational energy management
- Industrial companies, commercial enterprises, trading companies and municipal facilities (e.g. hospitals)

A compact all-rounder

It only takes a few simple steps to display and record the most important electrical parameters - for 2, 3 and 4-conductor systems of any load. The current is measured via Rogowski coils or folding current transformers. Power is supplied via the AC voltage path or alternatively via 24 VDC. As soon as the econ sens3 is supplied with voltage, the device starts recording the measurement data.

Various interfaces ensure the best possible integration of the econ sens3, even into existing systems. The Ethernet connection enables direct connection to a PC, or alternatively via a node such as a hub or switch. Measured values can also be retrieved via Modbus TCP. Communication via Modbus RTU also enables the interconnection of up to 32 participants.

The two upgrade options allow you to get even more out of the econ sens3:
o A network analysis function in accordance with EN50160 (PRO upgrade) or
o A data logger function (LOG upgrade) for 4 additional analog or digital signals.
Both options can also be combined on one device.

o Uninterrupted installation possible
o Three current measuring ranges to choose from:
   - Rogowski coil (200mm): from 3A to 400A
   - Rogowski coil (400mm): from 8A to 3000A
   - Folding current transformers: from 1A to 125A
o Automatic detection of Rogowski coils or folding current transformers
o Can be used in two-, three- and four-wire TN, TT and IT networks
o Power supply optionally via 230V AC voltage path or 24V DC
o Various interfaces to choose from: Impluse, analog signals, ModbusTCP, ModbusRTU, API as well as web interface and a direct econ4 connection
o Dimensions: 22.5 x 99.0 x 114.5 mm (WxHxD)
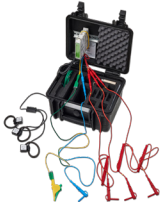
Integrated sens3 software for quick and easy data analysis

The integrated sens3 software enables easy analysis and evaluation of the measurement data using a web interface. All you need to do to access measurement data is to connect via an Ethernet cable and enter the device IP address in your browser - without the need for additional software. The values of the measured variables are stored in the internal memory in different time resolutions from seconds to daily, weekly and monthly values.

econ sens3

Versions, extension modules and accessories

Product	Description	Item no.
	econ sens3 ○ Energy and power meter	**EC241756**
	econ sens3 incl. folding transformer set ○ The energy and power meter with folding transformers is ideal for smaller currents up to 125A	**EC250868**
	econ sens3 incl. Rogowski coils ○ Energy and power meter with Rogowski coils for current measurements up to 400A / 3000A	400A coil set (200mm) **EC236703** 3000A coil set (400mm) **EC236704**
	econ sens3 - Rogowski coils ○ For current measurements up to 400A / 3000A	400A coil set (200mm) **EC235017** 3000A coil set (400mm) **EC235018**
	econ case - Mobile measuring system ○ econ sens3 multifunction measuring device included ○ For temporary measurements incl. 400A coil set	**EC243559**
	econ sens3 - Extension set ○ For current measurements	**EC227588** (3m) **EC226026** (6m) **EC224678** (10m)
	econ sens3 - Plug-in power supply ○ For reading out the data at the office workstation	**EC252429**
	Upgrades ○ PRO-Upgrade with network analysis function ○ LOG-Upgrade with data logger function for 4 additional inputs	**EC_PRO_UPGRADE** **EC_LOG_UPGRADE**