



econ sens3 energy and power measuring instrument

- + Easy installation on standardized top hat rail
- + Measurement of electrical power, energy, and other parameters with indirect measuring method
- + Uninterruptible installation possible
- + Ideal for installation in existing systems and distributions
- + Rogowski coils in different lengths for a current measuring range from 3A to 3000A
- + Integrated web interface for direct evaluation and analysis
- + Optional: PRO upgrade
- + Optional: LOG upgrade

Additional product information

www.econ-sens.com



Technical Data

Current measuring range	I _{max} : 400A / 3000A AC, depending on coil type; I _{min} : 3A
Power supply	Optionally 230V AC voltage path or 24V DC
Application	Two, three, and four lead TN, TT, and IT networks
Measurement accuracy*	400A variant: ± 1% (rel.) from 8 to 400A ± 2% (rel.) from 3 to 8A 3000A variant: ± 1% (rel.) from 8 to 3000A, ± 2% (rel.) from 3 to 8A Voltage: ± 0.5% (rel.)
Dimensions [mm]	W: 22.5 / H: 99.9 / D: 114.5
Interfaces	Pulse, analog signals, Modbus TCP, Modbus RTU, web interface, and econ 3.0 direct integration, Pulse and analog inputs (optional)
Option: PRO upgrade	› Network analysis according to EN50160 › Recording of various events such as flicker and voltage interruptions for detail analysis
Option: LOG-Upgrade	› Data logger function for connection of up to 4 additional measuring instruments (over digital or analog signals) › Ideal for small measuring installations, such as in branch offices and transformer buildings

* The relative measuring deviation is largely dependent on correct installation of the coils, including the central positioning of the lead in the coil and the angle of the coil to the lead. Additional information can be found in the econ sens3 Handbook or at www.econ-sens.com.



Accessories: econ sens3 V-KIT Safety test lead set

- + Safety test lead set with magnetic probes for power supply
- + Set consists of test leads with fuse holder, incl. 1A / 1000V fuses and magnetic probes, as well as plugs for connection to an econ sens3 basic device
- + Maximum safety
- + CAT IV / 1000V (safety test leads)
- + CAT IV / 600V (magnetic probes)
- + Safe connection of the voltage measuring paths
- + Safety in accordance with IEC / EN 61010-031

econ sens3 – integrated software for fast, easy data analysis

The econ sens3 has an integrated web interface (software) for easy evaluation and analysis of measured data. Access is quick and simple over your internet browser without installation of additional software. The measured values are stored internally in different time resolutions, from a second to daily, weekly, and monthly values.



Analysis and evaluation

- › Graphic and tabular display of measured data
- › Display of various electrical power and energy parameters, as well as current and voltage
- › Current value display and historical data tables

Export of measured data

- › Export of stored measured data in CSV format
- › Simple preparation and further processing
- › Easy integration and manual import of measured data into the econ 3.0 software

Events (with PRO and LOG upgrades)

- › Monitoring and analysis of network quality according to EN 50160
- › Storage of different events (e.g. voltage interruptions, flicker)
- › Graphic detail analysis of events in the millisecond range

econ 3.0 direct integration

- › Integration over network and IP address into econ 3.0 possible any time
- › No additional hardware required
- › Fully automatic data migration into the econ 3.0 application

