

Energy Monitors with WiFi smart-MAIC D103-1000A .. 2000A

for a measure of high currents up to 2000A and installation on highly loaded lines up to 1.5MW

**Measure, Analyze,
Improve and Control
... be smart**

Smart Energy Monitors

The smart-MAIC D103 is a three-lines smart energy monitor with full monitoring of all electricity parameters like Active Energy [Wh], Current [A], Voltage [V], Power Factor [$\cos\Phi$].

Analysis of the collected data will show the structure and peaks of energy consumption, identify excessive consumption and allow you to make the right decisions to reduce costs.

Cloud Data Server and Dashboard

To analyze and visualize the data, use the smart-MAIC Dashboard WEB application. It makes it possible to monitor current readings and visualize historical data received from smart-MAIC devices. The user is able to flexibly configure the widgets of indicators and graphs.



Specifications of the Energy Monitor

Measurement error	< 1% (at current > 5A)
Current measurement	up to 2000 A
Maximum load power controlled output	50 W
Power consumption	less than 1.2 W
Wireless communication protocol	2.4 GHz / IEEE 802.11 (b, g, n)
Data refresh rate	5 sec
Data collection interval	one-minute
Storing data without WiFi connection	up to 17 days
Installed working range temperatures	-40 °C up to 70 °C
Size of device L x W x D	90 x 67 x 52 mm (3 DIN)



Rogowski coils

To measure high currents in these models of energy monitors Rogowski coils are used - measuring current transformers in the form of a flexible closed solenoid, one of the terminals of which is brought to the other through the solenoid axis. Named after the German physicist Walter Rogowski. The rings are split design, flexible and easy to install.

Specification of the Rogowski coils

Accuracy class	0.5 Class
Current measurement	1000A / 1500A / 2000A
Inner diameter	100 mm
Length of cable	1.5 m
Type of coils	flexible and split design

