

NG-9 New Generation analyzer, 9 lines measured by a single device

The world' smallest analyzer featuring 9 channels within only 9 cm

Flexibility: Special probes from 1 to 2000 A offer the highest flexibility on the market. **Accuracy:** 0,5 class on the entire measure chain.

Measurements: 160 parametres on LCD display and, on your own device, via Modbus-RTU.

Versatility: Possibility of using all range of Rogowski Coils or Split Current Sensors on each instrument on either single, three or mixed phase mode.



NG9 is an innovative metering solution, unique on the market. It offers flexibility and simplicity by reducing product and installation costs compared to other devices on the market.

Reduced Size: The world' smallest analyzer

- ▶ 9 channels within only 88x90x60 mm (5 DIN modules).
- Easy to fit in pre-existing panels.
- New panels can be up to 67% smaller.

Installation: NG-9 reduces space, time and costs to increase simplicity

- Set sizes and most suitable solutions to get extremely precise measurements.
- Appropriate extensions allow a distance from the device up to 10 m.
- Reduction of installation errors to allow a simple and correct start up.
- Each current sensor can be connected to the device with a one-way electrical connector without using additional cables, scissors and screwdrivers. Installation costs reduced by 85% and no need for plants shutdown.

Flexibility: NG-9 the highest versatility on the market

- Only set sizes and most suitable solutions to get extremely precise measurements: 1 to 2000A with 2m long cables and extensions up to 10m.
- Possibility of using all range of Rogowski Coils or Split Current Sensors on each instrument on either single, three or mixed phase mode.

Accuracy: NG-9 0,5 class on the entire measure chain

- Device and sensors tested and calibrated to guarantee the stated accuracy.
- Calibration certificate available for each instrument and related sensor.

Settings: set manually or by software

- Smart» system 1 key joystick configuration.
- Set by NG software that permits simple and fast programming.
- Disaster Recovery Feature: every configuration is saved and shared with Energy Team Assistance Service.

Efficiency and High Performance: NG-9 the most efficient metering system on the market

- Power consumption 12 times less than any other device on the market.
- Modbus RTU communication speed 3 times faster than other analyzers: 115200 baud rate
- Auxiliary power supply 90 to 250 VAC or 24 to 1210 VDC
- Test voltage:3,7 kV, double than other analyzers (less electrical disturbances and more safety).

Graphics: NG-9 160 electrical parametres on the display

- 160 parametres on LCD display and, on your own device, via RTU-Modbus.
- Simple and immediate information: possibility to label each channel by software.
- All measures displayed by using joystick
- ▶ Graphic display with RGB led background.

Versatility: NG-9 anywhere it's needed

- Different fields of application: offices, warehouses, retail centres, small and large factories, data centres and many more.
- Different final users: Energy Managers, Maintenance and Production Managers, Energy Consulting Companies, ESCo, Energy Certifications (Diagnose, Audit).

NG-9 less time-consuming, reduces installation cost and avoids plant shutdowns



LOAD 3 100 A LOAD 5 10 A LOAD 4 40 A Connection sample: 2 three-phase, 3 mono-phase D (*) Ō 200 A LOAD 2 Choose your configuration: * 3 three-phase systems 2000 A LOAD 1 three-phase, 6 sing 2 three 4 9 single-phase system * ٢3 ۲2 • • ۳ -• \Box • С8 Ū • 5 R (L7) S (L8) T (L8) R (L1) R (L4) z LINE (LV 3P+N) * On demand: Internal Diameter 200 mm up to 8000A

Technical features

Voltage		
Inputs	Each voltage input can be matched with a current channel to allow any type of three or single phase measurement	
Number of channels	3	
Maximum working voltage	430 Vpeak phase - neutral 300 Vac phase - neutral 520 Vac phase - phase	
Current		
Number of channels	9 - Choose among the combination of current sensors listed below; each channel is selectable individually	
Accuracy	Class 0,5	
Sensor type 1 - Rogowski coil		
Max. cable external diameter	100mm	
Selectable ranges by Joystick	2000- 1000 - 400 - 200 - 100 A	
Sensor type 2 - Standard size current clamp		
Max. cable external diameter	24mm	
Dimensions (LxHxW)	44,5 x 65 x 33,5 mm	
Selectable ranges by Joystick	200 - 80 - 40 - 20 A	
Sensor type 3 - Miniature size current clamp		
Max. cable external diameter	16mm	
Dimensions (LxHxW)	30 x 43,5 x 30 mm	
Selectable ranges by Joystick	100 - 40 - 20 - 10 A	
Sensor type 4 - Mini-transformer (TA) with output voltage		
Max. cable external diameter	6mm	
Dimensions (LxHxW)	16 x 32 x 26,4 mm	
Selectable ranges by Joystick	1 - 2 - 5 - 10 A	

General		
Auxiliary power supply	The device allows AC or DC supply voltage in the limits specified below	
AC supply voltage range	90 - 250 Vac 50/60 Hz	
DC supply voltage range	24- 120 Vdc	
Power consumption	1.5 VA max (ac) or 1.5 W max (dc)	
Dimensions	5 DIN modules (approx. 88x90x60mm)	
Weight	95 grams without external sensors	
Display	128x64 pixels graphic display with multicol- our RGB LED background	
Keyboard	One 5 functions selector knob	
Communication interface	Isolated RS-485 with Modbus RTU protocol, with selectable speed up to 115200 bps and programmable parity	
Electric withstand between voltage inputs and communication port	6 kV	
Measurements		
Global Measures	Voltage L1-N, L2-N, L3-N, L1-2, L2-3, L3-1 Frequency (measured on Voltage 1 channel)	
For each one of the device's 9 channels	Current, Peak current, Active power (bidirectional), Reactive power (bidirectional), Apparent power, Power factor, Working quadrant, Imported Active energy, Exported Active energy, Imported Inductive energy, Imported Capacitive energy, exported Inductive energy, Exported Capacitive energy.	
For 3 possible three phase clustering	Equivalent line current, Three phase active power (bidirectional), Three phase reactive power (bidirectional), Three phase apparent power, Three phase power factor, Imported Active energy, Exported Active energy, Imported Inductive energy, Imported Capacitive energy, exported Inductive ener- gy, Exported Capacitive energy	