

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

Flexibility: Special sensors from 1 to 8000 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 Sensors or Split Current Sensors on each instrument on either single, three or mixed phase mode.



NG-9 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 up to 10 m distance from the device.
- > 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 8000A with 2m long cables and extensions
 > up to 10m.
- > Possibility of using all range of Rogowski Sensors 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 sha- red 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 120 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

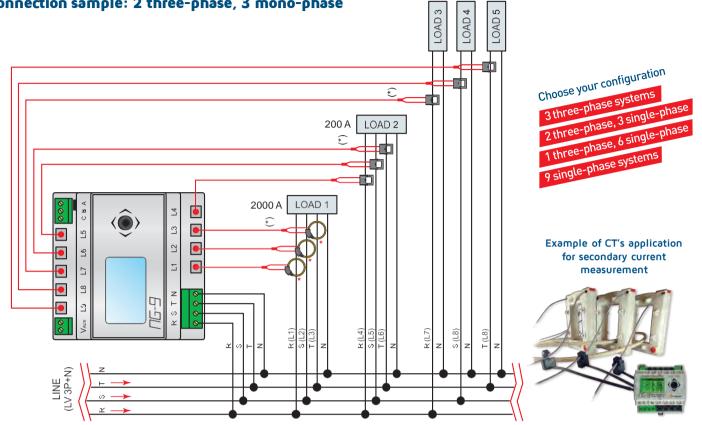
- > Different fields of application: offices, warehouses, retail centres, small and large factories, data centres and many more.
- > Different final users: Energy Managers, Maintenance and Production Managers, Energy Consulting Companies, ESCo, Energy Certifications (Diagnose, Audit).

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



NG-9

Connection sample: 2 three-phase, 3 mono-phase



100 A 40 A

10 A

Each voltage input can be matched with a Voltage current channel to allow any type of three or single phase measurement Number of channels 3 430 V swells phase - neutral Maximum working voltage 300 Vac phase - neutral 520 Vac phase - phase Current 9 - Choose among the combination of current Number of channels sensors listed below; each channel is selectable individually Class 0,5 Accuracy Max. cable external diameter 100 mm Selectable ranges by Joystick 2000 - 1000 - 400 - 200 - 100 A Sensor type 1a - Rogowski Sensor RG-4k/ RG-8k Diameter from 200 to 850 mm from 4000 to 8000 A End scale Sensor type 2 - Standard size current clamp Cable window 24 mm 44,5 x 65 x 33,5 mm Dimensions (LxHxW) 200 - 80 - 40 - 20 A Selectable ranges by Joystick Cable window 16 mm Dimensions (LxHxW) 30 x 43.5 x 30 mm 100 - 40 - 20 - 10 A Selectable ranges by Joystick Sensor type 4 - Mini-transform Cable window 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 multicolour 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
Insulation 6 Kv	between Voltmetric input and Rs 485 and between Aux Alim. and Rs 485
Working temperature	between -10 °C and + 55 °C
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, Current swells, 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 energy, Exported Capacitive energy.

