IO8

IO8, Advanced power quality analyzers

Code: Q20902. **CONSULTAR DISPONIBILIDAD**

> Protocol: Modbus/TCP | ZMODEM | FTP | webserver (HTTP)

> Memory: 4 GB

> Memory: Yes

> Web server: Yes

> Communications: RS-232 | RS-485 | Ethernet

> Transistor output: 8

> Digital inputs: 8

Description

QNA 500 is a modular power quality analyzer designed to measure and record the main electrical parameters and transient disturbances. The measurement is taken in true root mean square (TRMS), with 5 AC voltage inputs, 4 AC current inputs (via ... /5 A current transformers) and a leakage current input.

Application

QNA0500 is designed to supervise the electric installation and problems relating to electric power quality, in order to control production processes and manage incidents. It integrates easily with **SCADA** applications and interacts with commercially available PLCs, and so can be part of more global data acquisition systems and report to users the information they require at any time. Its modularity and the addition of **M-IO8** modules enable the user to also control energy consumption, states of switches or loads, send alarms, and even connect/disconnect loads according to configurable conditions.
When combined with **CIRCUTOR PowerVision Plus** software, the user can configure customised reports to assess the correct running of the electric installation, and can apply standards such as the **EN-50160**, event tables such as **CBEMA, UNIPEDE** or others. By automating this information, the user can view the most important data needed for the relevant analysis with just one click .

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Specifications

AC power supply

Consumption	10 VA

Mechanical characteristics

Size (mm) width x height x depth	62 x 125 x 173.3 (mm)
Envelope	Self-extinguishing V0 plastic
Differential current measurement	≤ 2,5 mm2
Fastening	DIN rail 46227 (EN 50022) or Bottom Panel
Weight (kg)	0,39

Environmental characteristics

Protection class	IP 41
Relative humidity (without condensation)	5...95%
Working temperature	-10...+60 °C

Standards

Certifications	CE
Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 280V, IEC 61010
Standards	EN 61000-6-3, EN 61000-6-1, EN 61010-1, EN 61000-4-11, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5

Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)

Digital inputs

Input/output insulation	5 kV
Quantity	8
Consumption (per input)	2,5 mW
Type	Optocoupler
Minimum signal width	15 µs
Operating voltage	12-18 Vdc

Digital relay outputs

Quantity	8
Operating current	130 mA
Type	Relé de estado sólido (Optomosfet)
Operating voltage	250 V
Maximum resistance RON	30 Ω

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Maximum power	500 mW
Maximum switching capacity	500 mW

Serial communication

Protocol	Modbus RTU

Communications through the BASE module (mandatory). Check the maximum number of modules that can be connected for each BASE system. The QNA500 include the Power Vision+ software Each unit is made up of a BASE module (power supply) + measuring module + inputs/outputs module (according to each type). Compatible with PowerStudio (version 4.02 and higher).

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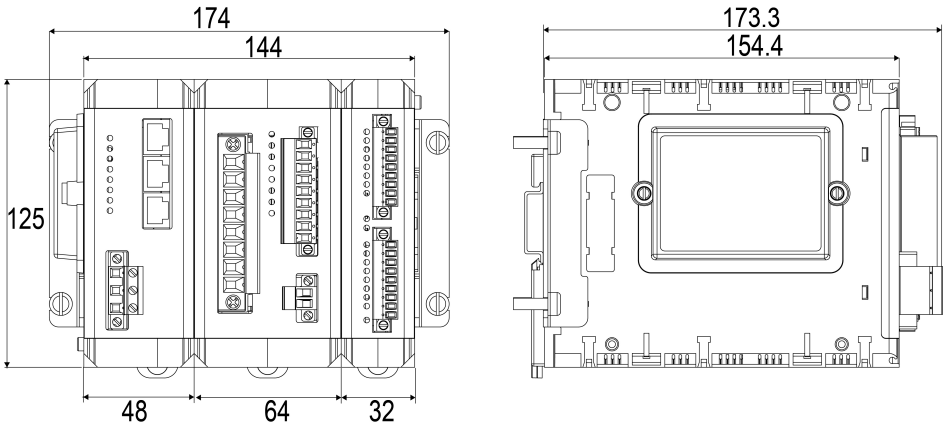
Dimensions



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