



## QNA-D510-4G

QNA-500, Advanced power quality analyzers

Code: Q23230.

- > Protocol: Modbus/TCP | ZMODEM | FTP | webservice (HTTP)
- > Memory: 4 GB
- > Memory: Yes
- > Events / Waveform (1 = yes): Yes
- > Web server: Yes
- > Energy accuracy: 0,25
- > Communications: RS-232 | RS-485 | Ethernet
- > Harmonics: 50
- > Class: S

## Specifications

### Auxiliary battery power supply

Autonomy	15 minutes of continuous operation (QNA500)
Battery type	Ni-MH extraíble ( base module)

### AC power supply

Consumption	5 VA
Frequency	50...60 HZ (Alim.Aux.:módulo base)
Nominal voltage	9...300 Vc.a.(Alim.Aux.:módulo base)

### DC power supply

Nominal voltage	100...300 Vdc (Aux. power base module)
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### Mechanical characteristics

Size (mm) width x height x depth	175 x 118 x 89 (mm)
Envelope	Self-extinguishing V0 plastic
Differential current measurement	≤ 2,5 mm <sup>2</sup>
Fastening	DIN rail 46227 (EN 50022) or Bottom Panel
Weight (kg)	0,914

### Environmental characteristics

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

### Standards

Certifications	CE, UL, VDE
Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT IV (600 V) o CAT III (1000 V) IEC 61010
Standards	IEC 664, VDE 0110, UL 94, IEC 801, IEC 348, IEC 571-1, 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, EN 55011, IEC 61000-4-30 Class A or Class S



## QNA-D510-4G

Modular power quality analyzer

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### Current measurement circuit

Sampling frequency	512 samples / cycle
Phase current measuring range	1...120% of In (In: 5A)
Permanent overload	120% In (In: 5A, I <sub>max</sub> : 6A)
Maximum pulse current	100 A

### Voltage measurement circuit

Sampling frequency	512 samples / cycle
Frequency measuring range	42.5...69 Hz
Nominal voltage	0...500V Ph-N / 0...866V Ph-Ph
Insulation voltage	1.2/50 $\mu$ s (8/20 $\mu$ s) 6 kV
Maximum permanent measurement voltage	1500 V (Ph-Ph)

### Electrical characteristics

Insulation voltage, circuit	1.2/50 $\mu$ s (8/20 $\mu$ s) 6kV
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### Communication Network

Protocol	ModBus/TCP, Cirbus, TCP/IP
Technology / Interface	Ethernet

### Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)
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### Leakage current measurement (ID)

Sampling frequency	64 samples / cycle
Measurement range	0-3 A
Maximum current	3 A

### Measurement accuracy

Current unbalance (Kd)	$\pm 5$ % (IEC61000-4-30 class S)
Voltage unbalance (Kd)	$\pm 5$ % (IEC61000-4-30 class S)
Active energy measurement (kWh)	0,2 % (in accordance with IEC 62053-22)
Active power measurement (kW)	0,2 % (in accordance with IEC 62053-22)
Phase voltage measurement	0,2 % (IEC-61000-4-30 class S)
Pst Flicker	According to IEC 61000-4-15
Current harmonics (THD)	According to IEC 61000-4-7
Voltage harmonics (THD)	According to IEC 61000-4-7

### Processor

Analogue to digital converter (ADC)	24 bits
Sampling frequency	512 samples/cycle per channel



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### Serial communication

Protocol	Modbus RTU
Technology / Type	RS-232 RS-485

### QNA-D510

Advanced power quality analyzers (according Standard UNE-EN-50160 and IEC 61000-4-30)

CODE	TYPE
<b>Additional modules</b>	
Q23220.	QNA-D510
Q23230.	QNA-D510-4G

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

