



K-QNA500 8IOR, Advanced power quality analyzers

Code: Q20913. DESCATALOGADO

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

> Memory: 4 GB

> Memory: Yes

> Events / Waveform (1 = yes): Yes

> Demand control: Yes > Web server: Yes

> Energy accuracy: 0,2S

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

> N° relays: 8 > Digital inputs: 8 > Harmonics: 50 > Class: S

> Mounting: Pannel | DIN rail | Wall-mounted

#### 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-108 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 .







Modular power quality analyzer

Code: Q20913.

#### **Specifications**

Auxiliary battery power supply	
Battery type	Ni-MH extraíble ( base module)
AC power supply	
Consumption	26 VA
Frequency	5060 HZ (Alim.Aux.:módulo base)
Nominal voltage	90300 Vc.a.(Alim.Aux.:módulo base)
DC power supply	
Nominal voltage	100300 Vdc (Aux. power base module)
Mechanical characteristics	
Size (mm) width x height x depth	174 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)	2,3
Environmental characteristics	
Protection class	IP 41
Relative humidity (without condensation)	595%
Working 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
Current measurement circuit	
Sampling frequency	512 samples / cycle
Phase current measuring range	1120% of In (In: 5A)
Permanent overload	120% In (In: 5A, Imax: 6A)
Maximum pulse current	100 A
	100 A







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Frequency measuring range  A5.5.69 Hz Nominal voltage  0560V Ph. N / 0866V Ph.Ph  Binstalation voltage  12/50µs (8/20µs) 6 kV  Maximum permanent measurement voltage  Electrical characteristics  Insulation voltage, creuit  12/50µs (8/20µs) 6kV  Communication Network  Protocol  Modisus/TCP, Cribus, TCP/IP  Technology / Interface  Electrical safety  Insulation  Double-insulated electric shock protection class II (IEC 61010-1)  Digital inputs  Input/output insulation  Double-insulated electric shock protection class II (IEC 61010-1)  Digital inputs  Input/output insulation  S kV  Dountly  8 Consumption (per input)  7 ype  Optocoupler  Minimum signal width  15 µs  Diperating voltage  12-18 Vac  Leakage current measurement (ID)  Sampling frequency  64 samples / cycle  Measurement accuracy  Nominal voltage  A6 A  Type  Relay  R		
Insolution voltage 1,7/50 pc (8/70 pc) 6 kV  Maximum permanent measurement voltage 1500 v (Ph-Ph)  Electrical characteristics  Insulation voltage, circuit 12/50 pc (8/70 pc) 6 kV  Communication Network  Protocol Mediaus/TCP, Cirbus, TCP / IP  Technology / Interface Ethernet  Electrical safety  Insulation Bouble-insulated electric shock protection class II (EC. 61010-1)  Digital inputs  Input / Output Insulation	Frequency measuring range	42.569 Hz
Maximum permanent measurement voltage   1500 V (Ph-Ph)	Nominal voltage	0500V Ph-N / 0866V Ph-Ph
Electrical characteristics  Insulation voltage, circuit  Communication Network  Protocol MedBus/TCP, Cirbus, TCP/IP  Technology / Interface Ethernet  Electrical safety  Insulation Double-Insulated electric shock protection dass II (IEC 61010-1)  Digital inputs  Input output insulation 5 kV  Quantity 8  Consumption (per input) 2,5 mW  Type Optiocoupler  Minimum signal width 15 µs  Operating voltage 12-18 Vdc  Leakage current measurement (ID)  Sampling frequency 64 samples / cycle  Measurement range 0-3 A  Maximum current 3.A  Digital relay outputs  Nominal current 6.A  Type Relay  Nominal current 6.A  Type Relay  Meminal voltage 250 V- / 30 Vdc  Maximum loud VAC 6.A (250 V- resistive)  Measurement accuracy  Current unbalance (Kd) ±5 % (IEC 61000-4-30 class S)  Active energy measurement (KW) 0.2 % (In accordance with IEC 62053-22)  Active energy measurement (KW) 0.2 % (In accordance with IEC 62053-22)  Active energy measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (IR accordance with IEC 62053-22)	Insulation voltage	1.2/50μs (8/20μs) 6 kV
Insulation voltage, circuit  Communication Network  Protocol ModBus / TCP, Cirbus, TCP / IP Technology / Interface Ethernet  Electrical safety  Insulation Double-insulated electric shock protection class III (IEC 61010-1)  Digital inputs  Input output insulation 5 kV Quantity 8 Consumption (per input) 2,5 mW Type Optocoupler  Minimum signal width 55 µs Operating voltage 12-18 VGc  Leakage current measurement (ID)  Sampling frequency 64 samples / cycle Measurement range 0-3 A Machinum current 3 A  Digital relay outputs  Digital relay outputs  Minimum current 6 A  Type Relay Nominal current 6 A  Type Relay Nominal voltage 250 V- / 30 Vdc Machinum load VAC 6 A (250 V- resistive)  Measurement accuracy  Current unbalance (Kd) 25 % (IEC61000-4-30 class S) Active energy measurement (WW) 0,2 % (in accordance with IEC 62053-22) Active energy measurement (KWH) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWH) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement (KWM) 0,2 % (in accordance with IEC 62053-22)	Maximum permanent measurement voltage	1500 V (Ph-Ph)
Communication Network  Protocol Protoco	Electrical characteristics	
Protocol ModBus/TCP/ Cirbus, TCP/IP  Technology / Interface Ethernet  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 valtage 12-18 Vdc  Leakage current measurement (ID)  Sampling frequency 66 samples / cycle  Measurement range 0-3 A  Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay Nominal voltage 250 V~ / 30 Vdc  Maximum load VAC 6 A (250 V~ resistive)  Measurement accuracy  Measurement accuracy  Measurement accuracy  Current unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Active energy measurement (kW) 0,2 % (in accordance with IEC 62053-22)  Active power measurement (kW) 0,2 % (in accordance with IEC 62053-22)  Active power measurement (kW) 0,2 % (in accordance with IEC 62053-22)  Active power measurement (kW) 0,2 % (in accordance with IEC 62053-22)  Active power measurement (kW) 0,2 % (in accordance with IEC 62053-22)  Phase voltage measurement (kW) 0,2 % (in accordance with IEC 62053-22)	Insulation voltage, circuit	1.2/50µs (8/20µs) 6kV
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  Leakage current measurement (ID)  Sampling frequency 64 samples / cycle Measurement range 0-3 A  Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay  Nominal current 6 A  Type Relay  Maximum load VAC 6 A (250 V- resistive)  Measurement accuracy  Current unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Active energy measurement (KWh) 0,2 % (in accordance with IEC 62053-22)  Active power measurement (KWh) 0,2 % (in accordance with IEC 62053-22)  Active power measurement (KWh) 0,2 % (in accordance with IEC 62053-22)  Active power measurement (KWh) 0,2 % (in accordance with IEC 62053-22)  Active power measurement (KWh) 0,2 % (in accordance with IEC 62053-22)  Phase voltage measurement (KWh) 0,2 % (in accordance with IEC 62053-22)	Communication Network	
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  Leakage current measurement (ID)  Sampling frequency 64 samples / cycle  Measurement range 0-3 A  Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay  Nominal voltage 250 V - / 30 Vdc  Maximum load VAC 6 A (250 V - resistive)  Measurement accuracy  Current unbalance (Kd) ±5 % (IEC 61000-4-30 class S)  Active power measurement (KWh) 0.2 % (in accordance with IEC 62053-22)  Active power measurement (KW) 0.2 % (in accordance with IEC 62053-22)  Active power measurement (KW) 0.2 % (in accordance with IEC 62053-22)  Phase voltage measurement (KW) 0.2 % (in accordance with IEC 62053-22)	Protocol	ModBus/TCP, Cirbus, TCP/IP
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  Leakage current measurement (ID)  Sampling frequency 64 samples / cycle  Measurement range 0-3 A  Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay  Nominal voltage 250 V- / 30 Vdc  Maximum load VAC 6 A (250 V- resistive)  Measurement accuracy  Current unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Voltage unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Active energy measurement (KWh) 0,2 % (in accordance with IEC 62053-22)  Active energy measurement (KW) 0,2 % (in accordance with IEC 62053-22)  Active power measurement (KW) 0,2 % (in accordance with IEC 62053-22)  Active power measurement (KW) 0,2 % (in accordance with IEC 62053-22)  Phase voltage measurement (KW) 0,2 % (in accordance with IEC 62053-22)	Technology / Interface	Ethernet
Digital inputs         Input/ output insulation       5 kV         Quantity       8         Consumption (per input)       2,5 mW         Type       Optocoupter         Minimum signal width       15 μs         Operating voltage       12-18 Vdc         Leakage current measurement (ID)       Easampling frequency         Sampling frequency       64 samples / cycle         Measurement range       0-3 A         Maximum current       3 A         Digital relay outputs         Nominal current       6 A         Type       Relay         Nominal voltage       250 V- / 30 Vdc         Maximum load VAC       6 A (250 V- resistive)         Measurement accuracy         Current unbalance (Kd)       ±5 % (IEC61000-4-30 class S)         Voltage unbalance (Kd)       ±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)	Electrical safety	
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  Leakage current measurement (ID)  Sampling frequency 64 samples / cycle  Measurement range 0-3 A  Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay  Nominal voltage 250 V- / 30 Vdc  Maximum load VAC 6 A (250 V- resistive)  Measurement accuracy  Current unbalance (Kd) ±5 % (IECG1000-4-30 class S)  Active energy measurement (kW) 0,2 % (in accordance with IEC 62053-22)  Active power measurement (kW) 0,2 % (in accordance with IEC 62053-22)  Phase voltage measurement (kW) 0,2 % (in accordance with IEC 62053-22)  Phase voltage measurement (kW) 0,2 % (in accordance with IEC 62053-22)	Insulation	Double-insulated electric shock protection class II (IEC 61010-1)
Quantity 2,5 mW Consumption (per input) 2,5 mW Type Optocoupler Minimum signal width 15 µs Operating voltage 12-18 Vdc  Leakage current measurement (ID) Sampling frequency 64 samples / cycle Measurement range 0-3 A Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay Nominal voltage 250 V- / 30 Vdc Maximum load VAC 6 A (250 V- resistive)  Measurement accuracy  Current unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Voltage unbalance (Kd) ±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 (kW) 0,2 % (in accordance with IEC 62053-22)  Phase voltage measurement (kW) 0,2 % (in accordance with IEC 62053-22)	Digital inputs	
Consumption (per input)  Type Optocoupler  Minimum signal width 15 µs Operating voltage 12-18 Vdc  Leakage current measurement (ID)  Sampling frequency 64 samples / cycle Measurement range 0-3 A Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay Nominal voltage Maximum load VAC 6 A (250 V - resistive)  Measurement accuracy  Current unbalance (Kd) ±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 (kW) 0,2 % (in accordance with IEC 62053-22) Phase voltage measurement 0,2 % (icc-61000-4-30 class S)	Input/output insulation	5 kV
Type Optocoupler  Minimum signal width 15 µs  Operating voltage 12-18 Vdc  Leakage current measurement (ID)  Sampling frequency 64 samples / cycle  Measurement range 0-3 A  Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay  Nominal voltage 250 V- / 30 Vdc  Maximum load VAC 6 A (250 V- resistive)  Measurement accuracy  Current unbalance (Kd) ±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 (KW) 0,2 % (in accordance with IEC 62053-22)  Phase voltage measurement (KW) 0,2 % (in accordance with IEC 62053-22)	Quantity	8
Minimum signal width 15 µs  Operating voltage 12-18 Vdc  Leakage current measurement (ID)  Sampling frequency 64 samples / cycle  Measurement range 0-3 A  Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay  Nominal voltage 250 V~ / 30 Vdc  Maximum load VAC 6 A (250 V~ resistive)  Measurement accuracy  Current unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Voltage unbalance (Kd) ±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 (kW) 0,2 % (in accordance with IEC 62053-22)  Phase voltage measurement (kW) 0,2 % (in accordance with IEC 62053-22)	Consumption (per input)	2,5 mW
Derating voltage 12-18 Vdc  Leakage current measurement (ID)  Sampling frequency 64 samples / cycle  Measurement range 0-3 A  Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay  Nominal voltage 250 V~ / 30 Vdc  Maximum load VAC 6 A (250 V~ resistive)  Measurement accuracy  Current unbalance (Kd) ±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 (KW) 0,2 % (in accordance with IEC 62053-22)  Phase voltage measurement (Lambalance (Lambalance voltage measurement) (Lambalance voltage voltage measurement) (Lambalance voltage voltage voltage measurement) (Lambalance voltage volta	Туре	Optocoupler
Leakage current measurement (ID)  Sampling frequency 64 samples / cycle  Measurement range 0-3 A  Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay  Nominal voltage 250 V~ / 30 Vdc  Maximum load VAC 6 A (250 V~ resistive)  Measurement accuracy  Current unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Voltage unbalance (Kd) ±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 (KW) 0,2 % (IEC-61000-4-30 class S)	Minimum signal width	15 μs
Sampling frequency  Measurement range  0-3 A  Maximum current  3 A   Digital relay outputs  Nominal current  6 A  Type  Relay  Nominal voltage  250 V~ / 30 Vdc  Maximum load VAC  6 A (250 V~ resistive)   Measurement accuracy  Current unbalance (Kd)  ±5 % (IEC61000-4-30 class S)  Voltage unbalance (Kd)  ±5 % (IEC61000-4-30 class S)  Active energy measurement (kWh)  0,2 % (in accordance with IEC 62053-22)  Active power measurement (kW)  0,2 % (IEC-61000-4-30 class S)	Operating voltage	12-18 Vdc
Measurement range 0-3 A  Maximum current 3 A  Digital relay outputs  Nominal current 6 A  Type Relay  Nominal voltage 250 V~ / 30 Vdc  Maximum load VAC 6 A (250 V~ resistive)  Measurement accuracy  Current unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Voltage unbalance (Kd) ±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 (kW) 0,2 % (IEC-61000-4-30 class S)	Leakage current measurement (ID)	
Maximum current       3 A         Digital relay outputs         Nominal current       6 A         Type       Relay         Nominal voltage       250 V~ / 30 Vdc         Maximum load VAC       6 A (250 V~ resistive)         Measurement accuracy         Current unbalance (Kd)       ±5 % (IEC61000-4-30 class S)         Voltage unbalance (Kd)       ±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)	Sampling frequency	64 samples / cycle
Digital relay outputs         Nominal current       6 A         Type       Relay         Nominal voltage       250 V~ / 30 Vdc         Maximum load VAC       6 A (250 V~ resistive)         Measurement accuracy         Current unbalance (Kd)       ±5 % (IEC61000-4-30 class S)         Voltage unbalance (Kd)       ±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)	Measurement range	0-3 A
Nominal current  Figure 1  Nominal voltage 250 V~ / 30 Vdc  Maximum load VAC 6 A (250 V~ resistive)  Measurement accuracy  Current unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Voltage unbalance (Kd) ±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  Phase voltage measurement (V) 0,2 % (IEC-61000-4-30 class S)	Maximum current	3 A
Type Relay  Nominal voltage 250 V~ / 30 Vdc  Maximum load VAC 6 A (250 V~ resistive)  Measurement accuracy  Current unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Voltage unbalance (Kd) ±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 (by (IEC-61000-4-30 class S)	Digital relay outputs	
Nominal voltage  Maximum load VAC  6 A (250 V~ resistive)  Measurement accuracy  Current unbalance (Kd)  ±5 % (IEC61000-4-30 class S)  Voltage unbalance (Kd)  ±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)	Nominal current	6 A
Measurement accuracy  Current unbalance (Kd)	Туре	Relay
Current unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Voltage unbalance (Kd) ±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)	Nominal voltage	250 V~ / 30 Vdc
Current unbalance (Kd) ±5 % (IEC61000-4-30 class S)  Voltage unbalance (Kd) ±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)	Maximum load VAC	6 A (250 V~ resistive)
Voltage unbalance (Kd) ±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)	Measurement accuracy	
Active energy measurement (kWh)  O,2 % (in accordance with IEC 62053-22)  Active power measurement (kW)  O,2 % (in accordance with IEC 62053-22)  Phase voltage measurement  O,2 % (IEC-61000-4-30 class S)	Current unbalance (Kd)	±5 % (IEC61000-4-30 class S)
Active power measurement (kW)  0,2 % (in accordance with IEC 62053-22)  Phase voltage measurement  0,2 % (IEC-61000-4-30 class S)	Voltage unbalance (Kd)	±5 % (IEC61000-4-30 class S)
Phase voltage measurement 0,2 % (IEC-61000-4-30 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)
Pst Flicker According to IEC 61000-4-15	Phase voltage measurement	0,2 % (IEC-61000-4-30 class S)
	Pst Flicker	According to IEC 61000-4-15







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Current harmonics (THD)	According to IEC 61000-4-7	
Voltage harmonics (THD)	According to IEC 61000-4-7	
Processor		
Analoque to digital converter (ADC)	24 bits	
Sampling frequency	512 samples/cycle per channel	
Serial communication		
Protocol	Modbus RTU	
Technology / Type	RS-232 RS-485	

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 Connections



