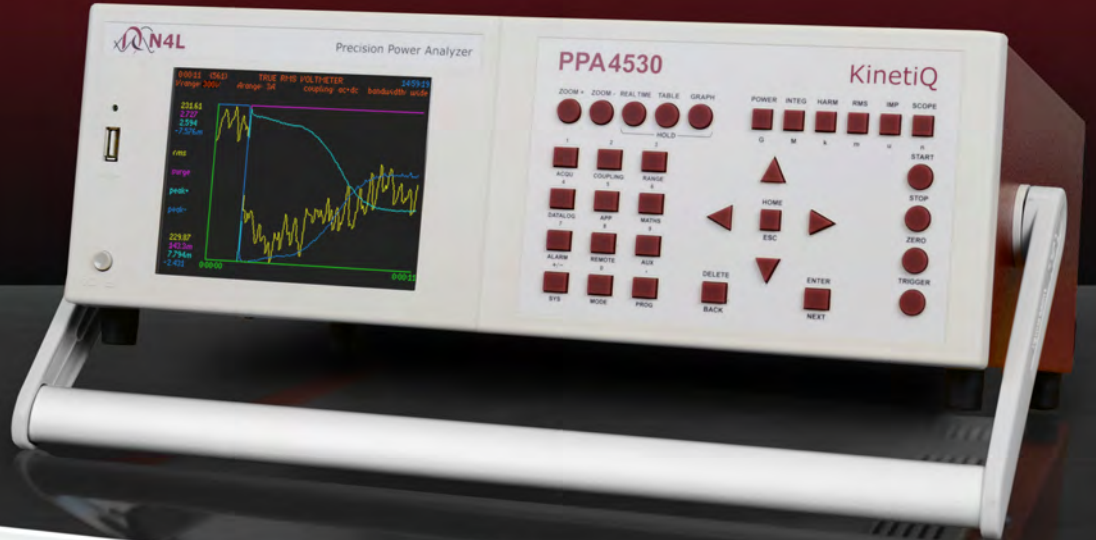




PPA4500 Series
PPA5500 Series



| | |
|---------------------------------------|--|
| Leading wideband accuracy | Basic 0.01%(PPA5500) with class leading high frequency performance |
| Wide frequency range | DC, 10mHz to 2MHz |
| Fast sample rate and No-Gap | 2.2M samples/s |
| Leading phase accuracy | 0.005 Degrees plus 0.01 degrees per kHz |
| Built in high precision current shunt | 10Arms, 30Arms or 50Arms with up to 1000Apk direct plus a wide range of external sensors |
| Versatile interfaces | RS232, USB, LAN, GPIB as standard (PPA5500) plus direct torque and speed |
| Range of PC software options | Remote control, monitoring and recording of real time data, tables and graphs |
| PWM Motor Drive Measurements | Highest performance Analyzer on the market for PWM Motor Drive Evaluation |
| External Voltage BNC Connector | Unique External BNC connector with high sensitivity to interface with external High Voltage Probes |

SPECIFICATION

| | PPA4500 | PPA5500 | | | |
|---|--|---|--|----------|--|
| Frequency Range | DC,10mHz ~ 2MHz - PPA4500-LC(10Arms), PPA4500(30Arms) DC,10mHz ~ 1MHz - PPA4500-HC(50Arms) | DC,10mHz ~ 2MHz - PPA5500-LC(10Arms), PPA5500(30Arms) DC,10mHz ~ 1MHz - PPA5500-HC(50Arms) | | | |
| Voltage Input | | | | | |
| Internal | Range | 1Vpk ~ 3000Vpk(1000Vrms) in 8 ranges (240Vrms within 300Vpk range, using 20% overrange) | 300mVpk ~ 3000Vpk(1000Vrms) in 9 ranges (240Vrms within 300Vpk range, using 20% overrange) | | |
| | Accuracy | 0.03% Rdg+0.04% Rng+(0.004%×kHz Rdg)+5mV | 0.01% Rdg+0.038% Rng+(0.004%×kHz Rdg)+5mV | | |
| External | Range | 1mVpk ~ 3Vpk in 9 ranges [BNC connector 3Vpk max input] | 300μVpk ~ 3Vpk in 9 ranges [BNC connector 3Vpk max input] | | |
| | Accuracy | 0.03%Rdg+0.04%Rng+(0.004%×kHz Rdg)+3μV | 0.01%Rdg+0.038%Rng+(0.004%×kHz Rdg)+3μV | | |
| Current Input | | | | | |
| Internal | 10Arms Low Current (PPA5500-LC) 4mm safety connectors | Ranges | 10mApk ~ 30Apk(10Arms) in 8 ranges | Ranges | 3mApk ~ 30Apk(10Arms) in 9 ranges |
| | | Accuracy | 0.03% Rdg+0.04% Rng+(0.004%×kHz Rdg)+ 30μA | Accuracy | 0.01% Rdg+0.038% Rng+(0.004%×kHz Rdg)+ 30μA |
| | 30Arms Current (PPA5500) 4mm safety connectors | Ranges | 100mApk ~ 300Apk(30Arms) in 8 ranges | Ranges | 30mApk ~ 300Apk(30Arms) in 9 ranges |
| | | Accuracy | 0.03% Rdg+0.04% Rng+(0.004%×kHz Rdg)+ 300μA | Accuracy | 0.01% Rdg+0.038% Rng+(0.004%×kHz Rdg)+ 300μA |
| | 50Arms High Current (PPA5500-HC) ** | Ranges | 300mApk ~ 1000Apk(50Arms) in 8 ranges | Ranges | 100mApk ~ 1000Apk(50Arms) in 9 ranges |
| | | Accuracy | 0.03% Rdg+0.04% Rng+(0.004%×kHz Rdg)+ 900μA | Accuracy | 0.01% Rdg+0.038% Rng+(0.004%×kHz Rdg)+ 900μA |
| External input (External shunt Current sensor) | BNC Connector (Max input 3Vpk) | Ranges | 1mVpk ~ 3Vpk in 8 ranges | Ranges | 300μVpk ~ 3Vpk in 9 ranges |
| | | Accuracy | 0.03% Rdg+0.04% Rng+(0.004%×kHz Rdg)+ 3μV | Accuracy | 0.01% Rdg+0.038% Rng+(0.004%×kHz Rdg)+ 3μV |
| Phase Accuracy | 0.005deg+(0.01deg×kHz) [PPA45/5500-LC(10Arms), PPA45/5500(30Arms)] 0.01deg+(0.02deg×kHz) [PPA45/5500-HC(50Arms)] | | | | |
| Power Accuracy | | | | | |
| | [0.04%+0.05%/pf+(0.01%×kHz)/pf] Rdg+0.04%VA Rng | | [0.03%+0.03%/pf+(0.01%×kHz)/pf] Rdg+0.03%VA Rng | | |
| 40-400Hz | [0.03%+0.04%/pf+(0.01%×kHz)/pf] Rdg+0.03%VA Rng | | [0.02%+0.03%/pf+(0.01%×kHz)/pf] Rdg+0.02%VA Rng | | |
| General | | | | | |
| Crest Factor | 20(Voltage and Current) | | | | |
| Sample Rate | 2.2Ms/s on all channels, No-Gap | | | | |
| IEC Modes | IEC62301 Standby Power | | IEC61000 Harmonics and Flicker, IEC62301 Standby Power | | |
| Application Modes | PWM Motor Drive, Ballast, Inrush, Power Transformer, Standby Power | | PWM Motor Drive, Ballast, Inrush, Power Transformer, Standby Power, Fluctuating Harmonics, Flicker Meter, TVF105 Interharmonics | | |
| CMRR - Common Mode Rejection Ratio | | | | | |
| | 250V @ 50Hz - ≥ 1mA (150dB) | | | | |
| | 100V @ 100kHz - ≥ 3mA (130dB) | | | | |
| Measurement Parameters | | | | | |
| | W ,VA ,Var ,pf ,V & A - rms ,rectified mean ,AC ,DC ,Peak ,Surge ,Crest Factor ,Form Factor ,Star to Delta Voltage, +ve Pk, -ve Pk | | | | |
| | Frequency (Hz), Phase (deg), Fundamentals, Impedance | | | | |
| | Harmonics, THD, TIF, THF, TRD, TDD | | | | |
| | Integrated Values, Datalog, Sum and Neutral values | | | | |
| Datalog - Up to 4 user selectable measurement functions (30 with optional PC software) | | | | | |
| Datalog Window | No-Gap analysis, Minimum window 10ms | | No-Gap analysis, Minimum window 2ms | | |
| Memory | 16,000 records | | 10M records into flash RAM (Non-Volatile) | | |
| Communication Ports | | | | | |
| RS232 | Baud rate up to 38.4kbps,RTS/CTS flow control | | | | |
| LAN | (Option L) 10/100 Base-T Ethernet auto sensing | | (Fitted as standard) 10/100 Base-T Ethernet auto sensing | | |
| GPIB | (Option G) IEEE488.2 Compatible | | (Fitted as standard) IEEE488.2 Compatible | | |
| USB | USB 2.0 and 1.1 compatible | | | | |
| Analogue Output | Bipolar ±10V(BNC) | | | | |
| Speed Input | BNC Bipolar±10V or Pulse count 1Hz to 1MHz 0.01% Rdg | | | | |
| Torque | BNC Bipolar±10V or Pulse count 1Hz to 1MHz 0.01% Rdg | | | | |
| Sync | 4 ~ 6 Phase measurement (Master/Slave) | | | | |
| Extension | 4 ~ 6 Phase (Master/Slave) + Auxiliary | | | | |
| Standard Accessories | | | | | |
| Leads | Power, RS232, USB | | Power, RS232, USB, GPIB | | |
| Connection Cables | 36A 1.5m long 4mm stackable terminals 1x red, 1x yellow and 2x black per phase (1x red, 1x black with HC version) | | | | |
| Connection Clips | 4mm terminated alligator clips - 1x red, 1x yellow and 2x black per phase (1x red and 1x black per phase with PPA5500-HC version) | | | | |
| CD-ROM | CommView2 (RS232/USB/LAN), Command line, Script based communication software | | | | |
| Documents | User manual, Communications manual, Calibration certificate, Quick start guide | | | | |
| Mechanical/Environmental | | | | | |
| Display | 320×240 dot full colour TFT, White LED Backlit | | | | |
| Dimensions | 130H×400W×315D mm excluding feet | | | | |
| Weight | 5.4kg(1 Phase), 6kg(3 Phase) | | | | |
| Safety Isolation | 1000Vrms or DC(CATII), 600Vrms or DC(CATIII) | | | | |
| Power supply | 90 ~ 265Vrms, 50 ~ 60Hz, 40Vamax | | | | |
| Operating Conditions | 23°C ± 5°C Ambient Temperature (or air intake temperature when rack mounted), 20-90% Non-Condensing Relative Humidity, Temperature coefficient ±0.01% per °C of reading at 5-18°C and 28-40°C | | | | |

SPECIFICATION

| | PPA4500 | PPA5500 |
|--|---|--|
| Harmonic Specification | | |
| Bandwidth | DC,10mHz~2MHz - PPA4500-LC(10Arms), PPA4500(30Arms) DC,10mHz~1MHz - PPA4500-HC(50Arms) | DC,10mHz~2MHz - PPA5500-LC(10Arms), PPA5500(30Arms) DC,10mHz~1MHz - PPA5500-HC(50Arms) |
| No. of Harmonics | 100 | 417 |
| Sampling Frequency | 2Ms/s | |
| Signal Processing | DFT (Discret Fourier Transform) | |
| Crest Factor | 20 | |
| Power Factor | 0 to 1 | |
| Harmonic Accuracy | | |
| Voltage | 0.03% Rdg+0.04% Rng+(0.004%×kHz)+5mV | 0.01% Rdg+0.038% Rng+(0.004%×kHz)+5mV |
| Current | PPA4500-LC 0.03% Rdg+0.04% Rng+(0.004%×kHz Rdg)+10uA PPA4500 0.03% Rdg+0.04% Rng+(0.004%×kHz Rdg)+300uA PPA4500-HC 0.03% Rdg+0.04% Rng+(0.004%×kHz Rdg)+900uA | PPA5500-LC 0.01% Rdg+0.038% Rng+(0.004%×kHz Rdg)+10uA PPA5500 0.01% Rdg+0.038% Rng+(0.004%×kHz Rdg)+300uA PPA5500-HC 0.01% Rdg+0.038% Rng+(0.004%×kHz Rdg)+900uA |
| Harmonic Accuracy (above) still applies with Frequency Filter set | | |
| IEC61000 Harmonic Accuracy | | |
| Voltage | - | 0.2% Rdg+0.038% Rng+(0.004%×kHz Rdg)+5mV |
| Current | - | PPA5500-LC 0.2% Rdg+0.038% Rng+(0.004%×kHz Rdg)+10uA PPA5500 0.2% Rdg+0.038% Rng+(0.004%×kHz Rdg)+300uA PPA5500-HC 0.2% Rdg+0.038% Rng+(0.004%×kHz Rdg)+900uA |
| Cycle by Cycle Analysis direct to PC - 2Ms/s sample rate (Window setting) | | |
| Data Rate | 10ms | 5ms |
| Cycle by Cycle Analysis direct to Internal RAM - 2Ms/s sample rate | | |
| Data Rate | 10ms | 2ms |
| Voltage Attenuator Overload Capability | | |
| 20ms | 4.2kVpk (3kVrms) | 4.2kVpk (3kVrms) |
| 5s | 3.1kVpk (2.2kVrms) | 3.1kVpk (2.2kVrms) |
| Continuous | 3kVpk (1kVrms) | 3kVpk (1kVrms) |
| Minimum Current Measurement at Full Accuracy | | |
| PPA5500-LC | 45uArms | 45uArms |
| PPA5500 | 220uArms | 220uArms |
| PPA5500-HC | 700uArms | 700uArms |

ACCESSORIES SUPPLIED AS STANDARD

| Leads and Interfacing | |
|-----------------------------|---|
| Type | Specification |
| 36A Connection lead set | 1.5 Meter - 36A lead set with 4mm stackable safety terminals 1x Red, 1x Yellow and 2x Black per phase plus alligator clips |
| 36A 4mm to spade (Option) | 1.5 Meter - 36A lead set with 4mm to spade for HC terminals |
| RS232 cable | RS232 9pin serial Cable |
| USB cable | USB 2 Meter A male to B male |
| USB to 9-pin RS232 (Option) | USB ~ 9-pin RS232 Serial Converter |
| Master-Slave cable (Option) | Leads for connecting 2x PPA5500 in master/slave mode |
| GPIB Cable (PPA5500) | GPIB Interface Cable |

| Documents (Standard) | |
|---|--|
| Type | Specification |
| Calibration/Test & Inspection Certificate | PPA Certificate of Calibration |
| UKAS ISO17025 Certificate | UKAS ISO17025 Certificate of Calibration |
| Spare set of manuals | User manual Comms manual |

OPTIONAL ACCESSORIES

| PC Software (Optional CD, Free to Download) | |
|---|---|
| Type | Specification |
| PPALoG | PC control and data acquisition of 1 ~ 12 phases with selectable Real Time data, Graphing, Datalog and versatile export options |
| PPAcomm | Basic PC Control, Data storage, Print features |
| PPA Standby Power | Standby power measurements and reporting to IEC62301 |
| PPASoft PC software | LabView based software, PC Control, Data storage and Print |
| IECSOft | IEC61000 Testing Software |

| Connection and extension port accessories (Optional) | |
|--|--|
| Type | Specification |
| Breakout box | Simple analyzer connection between source and DUT |
| PCIS | 10Arms 300Apk rated Phase Controlled Inrush Switch |
| GPIB Communication Cable | GPIB Communication Cable Option (Port Fitted as standard on PPA5500) |

| Carry cases (Optional) | |
|------------------------|---|
| Type | Specification |
| Soft carrying case | Black nylon with shoulder strap |
| Hard flight case | Hard case with moulded lining suitable for shipping |



Breakout Box

| Rack Mount Kit (Optional) | |
|---------------------------|--|
| Type | Specification |
| Rack Mount brackets | PPA26/5500 19in rack mount brackets (model specific) |
| Rack Mount panel | PPA2500 19in rack fascia panel |

| Interface (Optional) | |
|----------------------|---|
| Type | Specification |
| PPA-LAN interface | Option L - LAN Interface - (Standard on 55 series) |
| PPA-GPIB interface | Option G - GPIB(IEEE488)Interface - (Standard on 55 series) |

PPA Series Hard Carrying Case



PPA500/1500 MODELS

For more details see separate brochure

| Phases | Model | Specification |
|--------|-----------------|--|
| 1 Ph | PPA1510/510* | DC, 10mHz~1MHz 100mApk~300Apk (20Arms) |
| 2 Ph | PPA1520/520* | |
| 3 Ph | PPA1530/530* | |
| 1 Ph | PPA1510/510-HC* | DC, 10mHz~1MHz 300mApk~1000Apk (30Arms) |
| 2 Ph | PPA1520/520-HC* | |
| 3 Ph | PPA1530/530-HC* | |

*PPA500 DC, 10mHz~500kHz



PPA1500 3 Phase model

ACCESSORIES

| High Performance Voltage Attenuating Probes | | | |
|---|---------------|-----------------|---|
| Model | Voltage Range | Frequency Range | Details |
| TT-HV250 | 2500Vpk | 300MHz | High Voltage Probe (Passive) 2.5kVpk 100:1 |
| TTV-HVP | 1500Vpk | 50MHz | High Voltage Probe (Passive) 15kVpk 1000:1 |
| ATT10 | 30Vpk | 30MHz | 10:1 Voltage Attenuator Box (For use in conjunction with HV Probes when output voltage of probe is >3Vpk, BNC Input/BNC Output) |
| ATT20 | 60Vpk | 30MHz | 20:1 Voltage Attenuator Box (For use in conjunction with HV Probes when output voltage of probe is >3Vpk, BNC Input/BNC Output) |
| ULCP | 3000Vpk | 2MHz | 1000:1 Ultra Low Capacitance Probe (Active), For use in applications such as Ballast Testing (<1pF Capacitance) |



TT-HV250 2.5kVpk Probes



TTV-HVP 15kVpk Probes



ATT10



ULCP

| High Performance External Current Measurement Options | | | | | |
|---|-------------------|-----------------|----------------|----------------|--|
| Model Number | Measuring Range | Frequency Range | Basic Accuracy | Phase Accuracy | Details |
| HF003 | 3Arms - 30Apk | DC - 2MHz | 470mΩ (±0.1%) | 0.0001° / kHz | 3Arms External Current Shunt, BNC Output (Use with PPA External Input) |
| HF006 | 6Arms - 60Apk | DC - 2MHz | 100mΩ (±0.1%) | 0.001° / kHz | 6Arms External Current Shunt, BNC Output (Use with PPA External Input) |
| HF020 | 20Arms - 200Apk | DC - 2MHz | 10mΩ (±0.1%) | 0.01° / kHz | 20Arms External Current Shunt, BNC Output (Use with PPA External Input) |
| HF100 | 100Arms - 1000Apk | DC - 2MHz | 1mΩ (±0.1%) | 0.05° / kHz | 100Arms External Current Shunt, BNC Output (Use with PPA External Input) |
| HF200 | 200Arms - 2000Apk | DC - 2MHz | 0.5mΩ (±0.1%) | 0.1° / kHz | 200Arms External Current Shunt, BNC Output (Use with PPA External Input) |
| HF500 | 500Arms - 5000Apk | DC - 2MHz | 0.2mΩ (±0.1%) | 0.1° / kHz | 500Arms External Current Shunt, BNC Output (Use with PPA External Input) |



External Shunt HF-003



External Shunt HF-100



External Shunt HF-200



External Shunt HF-500

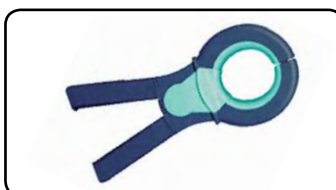
| Probe/Current Clamp Transformer: AC | | | | | | | |
|-------------------------------------|------------------------|-----------------|-----------------------------|---------------------------------------|---|-------------|--|
| Model Number | Measuring range | Frequency range | Accuracy | Details | Clamp diameter | Category | |
| M3 UB 50A-1V | 100mA ~ 50A | 40Hz ~ 5kHz | 1% | 100mA to 50A AC Current Clamp | 15mm×17mm | 600V CATIII | |
| M3 U 100A-1V | 1A ~ 100A | 40Hz ~ 5kHz | 1% | 1A to 100A AC Current Clamp | 15mm×17mm | 600V CATIII | |
| S UE 200A-1V | 1A ~ 200A | 40Hz ~ 5kHz | 1% | 1 A to 200A AC Current Clamp | 50mm ø | 600V CATIII | |
| S UE 250 500 1000-1V | 1A ~ 250A/500A/1000A | 40Hz ~ 5kHz | 1%(250A) 0.5%(500+1000A) | 1 A to 250/500/1000A AC Current Clamp | 50mm ø | 600V CATIII | |
| US UE 1000A-1V | 1A ~ 1000A | 40Hz ~ 5kHz | 1% | 1A to 1000A AC Current Clamp | 43mm ø | 600V CATIII | |
| SM UE 1000A-1V | 0.5A ~ 1000A(1%>100A) | 15Hz ~ 15kHz | 1% | 0.5A to 1000A AC Current Clamp | 54mm ø | 600V CATIII | |
| SM UB 1000A-1V | 0.5A ~ 1000A(0.5%>10A) | 15Hz ~ 15kHz | 0.5% | 0.5A to 1000A AC Current Clamp | 54mm ø | 600V CATIII | |
| P32 UE 1000A-1V | 5A ~ 1000A | 40Hz ~ 5kHz | 1% | 5 A to 1000A AC Current Clamp | 83mm ø (125mm×47mm or 100mm×58mm) | 600V CATIII | |
| P32 UE 3000A-1V | 5A ~ 3000A | 40Hz ~ 5kHz | 1% | 5 A to 3000A AC Current Clamp | 83mm ø | 600V CATIII | |



Current Clamp M3-UB 50A-1V



Current Clamp S-UE 200A-1V



Current Clamp SM-UB 1000A-1V



Current Clamp P32-UE 1000A-1V

| Probe / Current Clamp (Hall effect): AC + DC | | | | | | |
|--|------------------|-----------------|----------|----------------------------------|----------------|-------------|
| Model number | Measuring range | Frequency range | Accuracy | Details | Clamp diameter | Category |
| SC 3C 100A-1V | 1A ~ 100A | DC ~ 5kHz | 2% | 1A to 100A AC+DC Current Clamp | 50mm ϕ | 600V CATIII |
| SC 3C 1000A-1V | 1A ~ 1000A | DC ~ 2kHz | 1% | 1A to 1000A AC+DC Current Clamp | 59mm ϕ | 600V CATIII |
| P20 3C 2000A-2V | 40A ~ 1000/2000A | DC ~ 2kHz | 1% | 40A to 2000A AC+DC Current Clamp | 83mm ϕ | 600V CATIII |
| P40 3C 4000A-2V | 40A ~ 2000/4000A | DC ~ 2kHz | 1.5% | 40A to 4000A AC+DC Current Clamp | 83mm ϕ | 600V CATIII |
| P50 3C 5000A-2V | 50A ~ 1000/5000A | DC ~ 2kHz | 1.5% | 50A to 5000A AC+DC Current Clamp | 83mm ϕ | 600V CATIII |



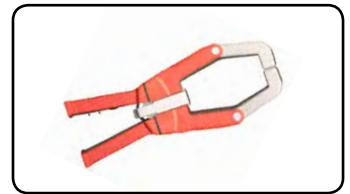
Current Clamp SC 3C 100A-1V



Current Clamp SC 3C 1000A-1V



Current Clamp P20 3C 2000A-2V



Current Clamp P50 3C 5000A-2V

| Rogowski Current Transducer: AC / Zero Flux Current Transducer: AC+DC | | | | | | |
|---|-----------------|-----------------|----------|-----------------------------------|---------------------------------|-------------|
| Model number | Measuring range | Frequency range | Accuracy | Details | Coil/Through Hole Circumference | Category |
| WR5000 Rogowski | 1A ~ 5000A | 1Hz ~ 1MHz | 0.05% | 1A to 5000A AC Rogowski Coil | 600mm | 600V CATIII |
| WR10000 Rogowski | 1A ~ 10000A | 1Hz ~ 1MHz | 0.05% | 1A to 5000A AC Rogowski Coil | 600mm | 600V CATIII |
| Zero Flux Current Transducer | 0A ~ 200A | DC ~ 250kHz | 0.01% | 200A Zero Flux Current Transducer | 27.6mm | 600V CATIII |
| Zero Flux Current Transducer | 0A ~ 600A | DC ~ 250kHz | 0.01% | 600A Zero Flux Current Transducer | 27.6mm | 600V CATIII |



WR5000 Rogowski Coil



Danisense DS600

PPA5500 SERIES MODELS

| Phases | Model | Specification |
|--------|------------|--|
| 1 Ph | PPA5510-LC | DC, 10mHz ~ 2MHz 3mApk ~ 30Apk (10Arms) |
| 2 Ph | PPA5520-LC | |
| 3 Ph | PPA5530-LC | |
| 4 Ph | PPA5540-LC | |
| 5 Ph | PPA5550-LC | |
| 6 Ph | PPA5560-LC | |

| Phases | Model | Specification |
|--------|---------|--|
| 1 Ph | PPA5510 | DC, 10mHz ~ 2MHz 30mApk ~ 300Apk (30Arms) |
| 2 Ph | PPA5520 | |
| 3 Ph | PPA5530 | |
| 4 Ph | PPA5540 | |
| 5 Ph | PPA5550 | |
| 6 Ph | PPA5560 | |

Touchproof 50A screw connectors used on PPA5500-HC versions

| Phases | Model | Specification |
|--------|------------|--|
| 1 Ph | PPA5510-HC | DC, 10mHz ~ 1MHz 100mApk ~ 1000Apk (50Arms) |
| 2 Ph | PPA5520-HC | |
| 3 Ph | PPA5530-HC | |
| 4 Ph | PPA5540-HC | |
| 5 Ph | PPA5550-HC | |
| 6 Ph | PPA5560-HC | |

PPA4500 SERIES MODELS

| Phases | Model | Specification |
|--------|------------|--|
| 1 Ph | PPA4510-LC | DC, 10mHz ~ 2MHz 3mApk ~ 30Apk (10Arms) |
| 2 Ph | PPA4520-LC | |
| 3 Ph | PPA4530-LC | |
| 4 Ph | PPA4540-LC | |
| 5 Ph | PPA4550-LC | |
| 6 Ph | PPA4560-LC | |

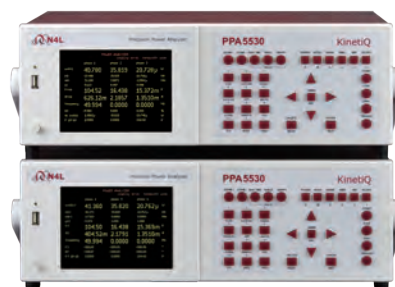
| Phases | Model | Specification |
|--------|---------|--|
| 1 Ph | PPA4510 | DC, 10mHz ~ 2MHz 30mApk ~ 300Apk (30Arms) |
| 2 Ph | PPA4520 | |
| 3 Ph | PPA4530 | |
| 4 Ph | PPA4540 | |
| 5 Ph | PPA4550 | |
| 6 Ph | PPA4560 | |

Touchproof 50A screw connectors used on PPA4500-HC versions

| Phases | Model | Specification |
|--------|------------|--|
| 1 Ph | PPA4510-HC | DC, 10mHz ~ 1MHz 100mApk ~ 1000Apk (50Arms) |
| 2 Ph | PPA4520-HC | |
| 3 Ph | PPA4530-HC | |
| 4 Ph | PPA4540-HC | |
| 5 Ph | PPA4550-HC | |
| 6 Ph | PPA4560-HC | |



PPA5500 3 Phase model



PPA5500 units in Master/Slave mode, synchronised for 4-6 Phase measurements



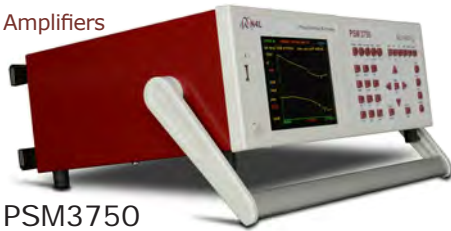
PRODUCT COMPARISON

| | PPA500 | PPA1500 | PPA4500 | PPA5500 |
|---|----------------|----------------|-----------------|-----------------|
| Basic Accuracy | | | | |
| V, A rdg error | 0.05% | 0.05% | 0.03% | 0.01% |
| Power rdg error | 0.10% | 0.10% | 0.04% | 0.03% |
| Phase Options | | | | |
| Internal | 1 ~ 3 | 1 ~ 3 | 1 ~ 3 | 1 ~ 3 |
| Master/Slave operation | — | — | 4 ~ 6 | 4 ~ 6 |
| Bandwidth | | | | |
| 20 & 30A Shunt | DC ~ 500kHz | DC ~ 1MHz | — | — |
| 10 & 30A Shunt | — | — | DC ~ 2MHz | DC ~ 2MHz |
| 50A Shunt | — | — | DC ~ 1MHz | DC ~ 1MHz |
| Voltage Input | | | | |
| Max input voltage | 2500Vpk | 2500Vpk | 3000Vpk | 3000Vpk |
| No. of ranges | 8 | 8 | 8 | 9 |
| Direct Current Input | | | | |
| 10Arms model | — | — | ○ | ○ |
| 20Arms model | ○ | ○ | — | — |
| 30Arms model | ○ | ○ | ○ | ○ |
| 50Arms model | — | — | ○ | ○ |
| No. of ranges | 8 | 8 | 8 | 9 |
| Features | | | | |
| Scope and Graph Modes | — | ○ | ○ | ○ |
| USB Memory port | ○ | ○ | ○ | ○ |
| LAN Port | ○ | ○ | ○ | ○ |
| GPIB Port | — | — | ○ | ○ |
| RS232 Port | ○ | ○ | ○ | ○ |
| Real time clock | ○ | ○ | ○ | ○ |
| 19in Rack mount option | ○ | ○ | ○ | ○ |
| Torque and Speed | — | — | ○ | ○ |
| IEC61000 Mode | — | — | — | ○ |
| PWM Motor Drive Mode | — | ○ | ○ | ○ |
| Oscilloscope | — | ○ | ○ | ○ |
| Transformer Mode | — | — | ○ | ○ |
| PWM Filter Options | — | 2 | 7 | 7 |
| Speed/Harmonics/Sec | 300/sec | 300/sec | 600/sec | 1800/sec |
| Internal Datalogging | 4 Parameters | 4 Parameters | 16 Parameters | 16 Parameters |
| Datalog Records | 16000 | 16000 | 16000 | 10M |
| ABD0100.1.8 Mode | — | — | — | ○ |
| Internal Memory | 192kB | 192kB | 200MB | 1GB |
| Harmonics | 50 | 50 | 100 | 417 |
| Minimum Window Size | 10ms | 2ms | 10ms | 2ms |
| Dimensions - Excl. Feet H x W x D (mm) | 92 x 215 x 312 | 92 x 215 x 312 | 130 x 400 x 315 | 130 x 400 x 315 |
| Weight | 3.3 - 4kg | 3.3 - 4kg | 5.4 - 6kg | 5.4 - 6kg |

— Not Applicable ○ Option ● Standard

All specifications at 23°C ± 5°C. These specifications are quoted in good faith but Newtons4th Ltd reserves the right to amend any specification at any time without notice.

The N4L product range also includes Frequency Response and Impedance Analyzers, Selective Level Meters and Laboratory Power Amplifiers



PSM3750
10μHz ~ 50MHz



PSM17xx
10μHz ~ 35MHz

Applications



- Power supply phase margin and gain margin (FRA)
- Inductance, Capacitance and Resistance (LCR)
- Analysis of mechanical vibration (HARM)
- Phase Angle Voltmeter (PAV)

Contact your local N4L Distributor for further details

Newtons4th

Newtons4th Ltd (abbreviated to N4L) was established in 1997 to design, manufacture and support innovative electronic equipment to a world-wide market, specialising in sophisticated test equipment particularly related to phase measurement. The company was founded on the principle of using the latest technology and sophisticated analysis techniques in order to provide our customers with accurate, easy to use instruments at a lower price than has been traditionally associated with these types of measurements. Flexibility in our products and an attitude to providing the solutions that our customers really want has allowed us to develop many innovative functions in our ever increasing product range.



Newtons4th Ltd are ISO9001 registered, the internationally recognised standard for the quality management of businesses



In recognition of the technical innovation and commercial success of the PPA series, N4L received the "Innovation 2010" Queen's award for enterprise

Distributed by:

Newtons4th Ltd
30 Loughborough Road
Mountsorrel
Loughborough
LE12 7AT
UK
Phone: +44 (0)116 230 1066
Fax: +44 (0)116 230 1061
Email: sales@newtons4th.com
Web: www.newtons4th.com