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DRAFT Rel. 1.01 - 17/12/24

1. GENERAL DESCRIPTION (*)

With a new design, advanced technology, and graphical user interface, the **PQA924 Class S** network analyzer dramatically reduced the complexity of power quality analysis and improved troubleshooting.

The PQA924 is designed to perform energy quality studies with automated measurements, a touch screen user interface and configuration, high accuracy specifications, and a simplified reporting platform.

PQA924, due to its high accuracy, can be used either in statistical energy quality surveys or in applications required for contractual compliance measurements without dispute with utilities. Every critical event related to energy quality is considered by the instrument: with fast transients **up to 8kV**, with harmonic analysis up to to 63rd order, with voltage sags and swells and flicker in order to characterize at 100% the power supply system.

The PQA924 can record up to 3177 channels and voltage/currents events simultaneously:

- Up to 386 channels Max, Min, Average between network parameters (130 categories: frequency, voltages, currents, powers, etc.)
- ➤ Up to 2225 harmonic data (63° order voltage, harmonic currents, amplitudes, and phases, 63° order harmonic powers, amplitudes, THD%, k factors
- > Up to 536 inter-harmonic data (63° inter-harmonic groups for voltages and currents, THD%)
- Up to 24 channels on energy data (active and reactive energies)
- Up to 6 channels on flicker data (Pst, Plt voltages)
- Events such as power sags, spikes and interruptions
- > Fast transient voltage events
- Inrush currents

(*) The technical specifications are subject to change without notice







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2. GENERAL CHARACTERISTICS

| FUNCTIONS | NOTE |
|---|--|
| Measurement category | CAT IV 600V~, CAT III 1000V~ max 1000V between inputs |
| Accuracy: Class S (voltage and current) | → |
| Managements different types of transducers on Phase and Neutral | ✓ |
| Automatic input setting Horrent voltage/C | ✓ |
| Auto recognition clamp types (Standard / Flexible) | .4 |
| and measurement ranges | • |
| Rated reference voltage (Udin): | 100 ÷ 690V |
| Selectable electrical systems | Single phase 2-wire+PE Single-phase 3-wire (two-phase) Three-phase, 3-wire ARON connection Three-phase 4-wire Two-phase 3-wire 2 1/2 elements (US systems) Two-phase 3-wire Open Delta (USA systems) Split-phase 3-fili Open WYE (USA systems) Three-phase 4-wire Open WYE (USA systems) Three Phase 4-Wire High Leg (USA systems) |
| Main electrical parameters considered: | Voltages L-N, L-L, L-PE (TRMS) Phase and Neutral Currents (TRMS) Active, Reactive, Apparent power (4 quadrants) Cosphi and Power Factor (4 quadrants) Active, Reactive, Apparent Energies (4 quadrants) |
| Crest factor, THD%, K-factor | • |
| Harmonics (up to 63rd order): | AmplitudePhaseIncoming / Outgoing |
| Power harmonic measurement (up to 63rd order) | AmlitudeIncoming / Outgoing |
| Interharmonic Measurement (up to 63rd order): | → |
| Voltage dissymmetry and unbalance current | • |
| Voltage anomalies: sags, swells, interruptions with waveform graphs | ✓ (max 2000 events) |
| Fast voltage transients up to 8kV with waveform graphs | ✓ (max 2000 events) |
| Flicker | V |
| Inrush currents with waveform graphs | ✓ (max 2000 events) |
| EN5016 Analysis | V |
| Integration period (IP): | 0.2,3,10,15,18,30s, 1,5,10,15, 30, 60,120min |
| Max number of parameters that can be registered: 32GB SD-Card for data storage. Maximum data size per recording 2GB, Duration (example): 2weeks, 450 parameters selected, PI =1sec | 3177 |
| PC connection | USB-C, WiFi, Rete Ethernet |
| Color display graphic touch screen 320 x 240pxl | <u> </u> |
| Sound keys | ▼ |
| Power supply: | External power supply A0080 (CAT IV 300, CAT III 600V, 100415V/15VDC, 50/60Hz) Internal: (recording time > 6hhours) 6 x1.5V AA type alkaline batteries 6 x1.2V rechargeable batteries NiMH type AA |
| Mechanical protection: | IP40 |
| Environmental conditions: | Working temperature: -10°C ÷ 50°C Humidity:10°C ÷ 30°C: 95% RH (nor condensation) 30°C ÷ 40°C: 75% RH (nor condensation) 40°C ÷ 50°C: 45% RH (nor condensation) |







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3. TECHNICAL SPECIFICATIONS (*)

Accuracy denoted as ±[%reading + value] at 23°C, <70RH; Clamp transducer accuracies not included

| AC TRMS Voltage (L-L / L-N) - Class S (IEC/EN61000-4-30) | | | | | |
|--|-----------|----------------|----------------------|--|--|
| Range (V) | Udin (V) | Resolution (V) | Accuracy | | |
| 0.00 ÷ 999.99 | 100 ÷ 690 | 0.01 | ± (0.5%UdinMIN=0.5V) | | |

Udin = system rated voltage: 100,105,110,115,120,125,127,150,190,200,208,216,220,230,240,250,277,346,380,400,415, 433, 440, 480, 575, 690V; Max crest factor: 1.5; Frequency range: 42.5Hz ÷ 69.0Hz

| Voltage anomalies – (L-L / L-N) – Class S (IEC/EN61000-4-30) | | | | | |
|--|-----------|---------------------------|--------------------------|---------------------|------------------|
| Range (V) | Udin (V) | Resolution Voltage (V) | Resolution Tempo (ms) | Accuracy Voltage | Accuracy Time |
| 1.00 ÷ 999.99 | 100 ÷ 690 | 0.01 | 1 cycle | ±(1.0%UdinMIN=1V) | ±2 cycles |

Udin = system rated voltage: 100, 105, 110, 115, 120, 125, 127, 150, 190, 200, 208, 216, 220, 230, 240, 250, 277, 346, 380, 400, 415, 433, 440, 480, 575, 690V; Hysteresis: 2%; Frequency range: 42.5Hz + 69.0Hz

| Voltage spike – (L-PE - Mono/Three phase systems) – Class S (IEC/EN61000-4-30) | | | | |
|--|----------|------------------------|-----------------|--|
| Range (V) | Accuracy | Voltage Resolution (V) | Time Resolution | |
| -8000 ÷ 8000 | ±3.0%FS | 10 | 1µs | |

Max number of recordable events: 2000; Frequency range: 42.5Hz ÷ 69.0Hz; Minimum threshold: 200V/µs

| Flicker (Single/Three-phase Systems) – Class S (IEC/EN61000-4-30) | | | | | |
|---|--------------------|------------|--------------------|--|--|
| Parameter | Range | Resolution | Accuracy (Class A) | | |
| Pinst | | | 8% | | |
| Pst | $0.400 \div 4.000$ | 0.001 | 10% | | |
| Plt | | | 1076 | | |

| AC Current TRMS (STD Standard transducer) Class S (IEC/EN61000-4-30) | | | | |
|---|-----------------|------------------------|--|--|
| Range (mV) | Resolution (mV) | Accuracy | | |
| 1.0 ÷ 99.9 | 0.1 | ±(2.0%read+0.5mV) | | |
| 100 ÷ 999.9 | 0.1 | ±(2.0%reading) S-Class | | |
| Signal values <1mV are zeroed; Frequency range: 42.5Hz ÷ 69.0Hz; Crest factor: ≤3 | | | | |

| AC TRMS Current (FLEX transducer – FS=300A) Class S (IEC/EN61000-4-30) | | | | |
|--|-----------------|------------------------|--|--|
| Range (mV) | Resolution (μV) | Accuracy | | |
| 0.085 ÷ 2.55 | 8.5 | ±(2.0%read+42.5μV) | | |
| 2.55 ÷ 25.5 | 0.5 | ±(2.0%reading) S-Class | | |

Signal values <85µV are zeroed; Frequency range: 42.5Hz ÷ 69.0Hz; Crest factor: ≤3

| AC TRMS Current (FLEX transducer – FS=3000A) Class S (IEC/EN61000-4-30) | | | | |
|---|-----------------|------------------------|--|--|
| Range (mV) | Resolution (μV) | Accuracy | | |
| 0.85 ÷ 25.5 | 85 | ±(2.0%read+425µV) | | |
| 25.5 ÷ 255 | 65 | ±(2.0%reading) S-Class | | |

Signal values <850µV are zeroed; Frequency range: 42.5Hz ÷ 69.0Hz; Crest factor: ≤3

| AC TRMS Current (FLEX transducer – FS=6000A) Class S (IEC/EN61000-4-30) | | | | |
|---|-----------------|------------------------|--|--|
| Range (mV) | Resolution (μV) | Accuracy | | |
| 1.7 ÷ 51.0 | 170 | ±(2.0%reading + 850μV) | | |
| 51.0 ÷ 510 | | ±(2.0%reading) S-Class | | |

Signal values <1.7mV are zeroed; Frequency range: 42.5Hz ÷ 69.0Hz; Crest factor: ≤3

AC TRMS Current (FLFX transducer – FS=10000A) Class S (IFC/FN61000-4-30)

| 10 TRING Garrett (i EEX transducer – i 0-10000A) Glass 5 (iEO/Ei101000-4-50) | | | |
|--|----------|-------------------------|--|
| Range (mV) | Accuracy | | |
| 1.7 ÷ 85.0 | 283 | ±(2.0%reading + 1400μV) | |
| 85.0 ÷ 850 | | ±(2.0%reading) | |

Signal values <1.7mV are zeroed; Frequency range: 42.5Hz ÷ 69.0Hz; Crest factor: ≤ 1.8





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| Inrush Currents - (STD standard transducer) | | | | | |
|---|----------------------------|---------------------|--------------------|------------------|--|
| Range (mV) | Resolution Voltage (mV) | Accuracy | Resolution Time | Accuracy Time | |
| 1.0 ÷ 999.9 | 0.1 | ±(2%reading +0.5mV) | 1/2 cycle | ± 1/2 cycle | |

Signal values <1mV are zeroed; Frequency range: 42.5Hz ÷ 69.0Hz; Crest factor: ≤3

| Inrush - (FLEX transducer – FS=300A) | | | | | | |
|--------------------------------------|----------------------------|----------------------|--------------------|------------------|--|--|
| Range (mV) | Resolution Voltage (μV) | Accuracy Voltage | Resolution Time | Accuracy Time | | |
| 0.085 ÷ 25.5 | 8.5 | ±(2%reading +42.5μV) | 1/2 cycle | ± 1/2 cycle | | |

Signal values <85µV are zeroed; Frequency range: 42.5Hz ÷ 69.0Hz; Crest factor: ≤3

| Inrush - (FLEX transducer – FS=3000A) | | | | | | |
|---------------------------------------|----------------------------|---------------------|--------------------|------------------|--|--|
| Range (mV) | Resolution Voltage (µV) | Accuracy Voltage | Resolution Time | Accuracy Time | | |
| 0.85 ÷ 255 | 85 | ±(2%reading +425µV) | 1/2 cycle | ± 1/2 cycle | | |

Signal values <850µV are zeroed; Frequency range: 42.5Hz ÷ 69.0Hz; Crest factor: ≤3

| Inrush currents - (FLEX transducer – FS=6000A) | | | | | |
|--|----------------------------|---------------------|--------------------|------------------|--|
| Range (mV) | Resolution Voltage (µV) | Accuracy Voltage | Resolution Time | Accuracy Time | |
| 1.7÷ 510 | 170 | ±(2%reading +425μV) | 1/2 cycle | ± 1/2 cycle | |

Signal values <1.7mV are zeroed; Frequency range: 42.5Hz ÷ 69.0Hz; Crest factor: ≤3

| Inrush currents - (FLEX transducer – FS=10000A) | | | | | | |
|---|----------------------------|---------------------|--------------------|------------------|--|--|
| Range (mV) | Resolution Voltage (µV) | Accuracy Voltage | Resolution Time | Accuracy Time | | |
| 1.7÷ 850 | 283 | ±(2%reading +710μV) | 1/2 cycle | ± 1/2 cycle | | |

Signal values <1.7mV are zeroed; Frequency range: 42.5Hz ÷ 69.0Hz; Crest factor: ≤ 1.8

| Frequency - Class S (IEC/EN61000-4-30) | | | | | |
|--|-------------|----------|--|--|--|
| Range (Hz) Resolution (Hz) Accuracy | | | | | |
| 42.5 ÷ 57.5 | 0.01 | +0.0EH-z | | | |
| 51.0 ÷ 69.0 | 51.0 ÷ 69.0 | | | | |

Signal frequency detected between L1-N or L1-L2 inputs

| Harmonics/Interharmonics - Class S (IEC/EN61000-4-30) | | | | | |
|---|-------------|-----------|----------------|-------------|--|
| Order | Condition | Udin (V) | Resolution (V) | Accuracy | |
| DC + 63° | Uh ≥ 3%Udin | 100 ÷ 690 | 0.01 | ±10%reading | |
| DC ÷ 63° | Uh <3%Udin | 100 + 690 | 0.01 | ±0.30Udin% | |

Udin = system rated voltage: 100, 105, 110, 115, 120, 125, 127, 150, 190, 200, 208, 216, 220, 230, 240, 250, 277, 346, 380, 400, 415, 433, 440, 480, 575, 690V Maximum Accuracy equal to 2 times the level specified in IEC/EN61000-4-7 Class II; Frequency range: 42.5Hz ÷ 69.0Hz Measuring range from 10% to 100% of the electromagnetic environment in Class 3 described in IEC/EN61000-2-4

| Current Harmonics/Interharmonics - Class S (IEC/EN61000-4-30) | | | | | |
|---|------------|----------------|-------------|--|--|
| Order | Condition | Resolution (A) | Accuracy | | |
| DC . 63° | Ih >=10%FS | 0.1 | ±10%reading | | |
| DC ÷ 63° | Ih <10%FS | 0.1 | ±0.30%FS | | |

FS = Full scale clamp used; Frequency range: 42.5Hz ÷ 69.0Hz







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| AC Active Power – (V:[80% 120%Udin], I: FS [13000A], cosφ=1) – STD transducer | | | | | | |
|---|---------------------------|----------------|---------------------|--|--|--|
| Current range [mV] | Range [W] | Resolution [W] | Accuracy | | | |
| 4 40 | 0.000 x FS ÷ 9.999 x FS | 0.001 x FS | | | | |
| 1 ÷10 | 10.00 x FS ÷ 99.99 x FS | 0.01 x FS | Not available | | | |
| | 100.0 x FS ÷ 999.9 x FS | 0.1 x FS | | | | |
| 10 ÷ 50 | 1.000k x FS ÷ 9.999k x FS | 0.001k x FS | \pm (2.0%reading) | | | |
| | 10.00k x FS ÷ 99.99k x FS | 0.01k x FS | , ,, | | | |
| 50 ÷ 1000 | 100.0k x FS ÷ 999.9k x FS | 0.1k x FS | ±(1.5%reading) | | | |
| 30 : 1000 | 1000k x FS ÷ 9999k x FS | 1k x FS | ±(1.5/@leading) | | | |

FS = full scale clamp; Fundamental frequency: 42.5Hz ÷ 69Hz, Crest factor voltage and current: 1.41

| AC Active Power – (V:[80% 120%Udin], I: FS = 300A], cosφ=1) – FLEX transducer | | | | | | |
|---|----------------------------------|----------------|----------------|--|--|--|
| Current range [mV] | Range [W] | Resolution [W] | Accuracy | | | |
| 0.085 ÷ 0.255 | 0.0 ÷ 999.5 1.000k ÷ 9.999k | 0.5 0.005k | Not available | | | |
| 0.255 ÷ 1.275 | 10.00k ÷ 99.99k | 0.05k | ±(2.0%reading) | | | |
| 1.275 ÷ 25.5 | 100.0k ÷ 999.9k 1000k ÷ 9999k | 0.5k 5k | ±(1.5%reading) | | | |

Fundamental frequency: 42.5Hz ÷ 69Hz, Crest factor voltage and current:1.41

| AC Active Power – (V:[80% 120%Udin], I: FS = 3000A], cosφ=1) – FLEX transducer | | | | | | |
|--|----------------------------------|----------------|----------------|--|--|--|
| Current range [mV] | Range [W] | Resolution [W] | Accuracy | | | |
| 0.85 ÷ 2.55 | 0 ÷ 9999 10.00k ÷ 99.99k | 5 0.05k | Not available | | | |
| 2.55 ÷ 12.75 | 100.0k ÷ 999.9k | 0.5k | ±(2.0%reading) | | | |
| 12.75 ÷ 255 | 1000k ÷ 9999k 1.000M ÷ 9.999M | 5k 0.005M | ±(1.5%reading) | | | |

Fundamental frequency: 42.5Hz ÷ 69Hz, Crest factor voltage and current: 1.41

| AC Active Power – (V:[80% 120%Udin], I: FS = 6000A], cosφ=1) – FLEX transducer | | | | | | |
|--|----------------------------------|----------------|----------------|--|--|--|
| Current range [mV] | Range [W] | Resolution [W] | Accuracy | | | |
| 1.7 ÷ 5.1 | 0 ÷ 9999 10.00k ÷ 99.99k | 5 0.05k | Not available | | | |
| 5.1 ÷ 25.5 | 100.0k ÷ 999.9k | 0.5k | ±(2.0%reading) | | | |
| 25.5 ÷ 510 | 1000k ÷ 9999k 1.000M ÷ 9.999M | 5k 0.005M | ±(1.5%reading) | | | |

Fundamental frequency: 42.5Hz ÷ 69Hz, Crest factor voltage and current: 1.41

| AC Active Power – (V:[80% 120%Udin], I: FS = 10000A], cosφ=1) – FLEX transducer | | | | | | |
|---|----------------------------------|----------------|---------------------|--|--|--|
| Current range [mV] | Range [W] | Resolution [W] | Accuracy | | | |
| 1.7 ÷ 5.1 | 0 ÷ 9999 10.00k ÷ 99.99k | 5 0.05k | Not available | | | |
| 5.1 ÷ 25.5 | 100.0k ÷ 999.9k | 0.5k | \pm (2.0%reading) | | | |
| 25.5 ÷ 850 | 1000k ÷ 9999k 1.000M ÷ 9.999M | 5k 0.005M | ±(1.5%reading) | | | |

Fundamental frequency: 42.5Hz ÷ 69Hz, Crest factor voltage and current: 1.41

| AC Reactive Power -(V:[80%120%Udin], I: FS [13000A], cosφ=0.5) – STD clamp | | | | | |
|--|---------------------------|------------------|--------------------|--|--|
| Current range [mV] | Range [VAr] | Resolution [VAr] | Accuracy | | |
| 4 40 | 0.000 x FS ÷ 9.999 x FS | 0.001 x FS | N 1 (3 1 1 | | |
| 1 ÷10 | 10.00 x FS ÷ 99.99 x FS | 0.01 x FS | Not available | | |
| | 100.0 x FS ÷ 999.9 x FS | 0.1 x FS | | | |
| 10 ÷50 | 1.000k x FS ÷ 9.999k x FS | 0.001k x FS | ±(2.0%reading) | | |
| | 10.00k x FS ÷ 99.99k x FS | 0.01k x FS | | | |
| 50 ÷ 1000 | 100.0k x FS ÷ 999.9k x FS | 0.1k x FS | ±(1.5%reading) | | |
| 30 ÷ 1000 | 1000k x FS ÷ 9999k x FS | 1k x FS | ±(1.5/@eading) | | |

FS = full scale clamp; Fundamental frequency: 42.5 ÷ 69Hz, Crest factor voltage and current: =1.41







EX clamp

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| AC Reactive Power – (V:[80% 120%Udin], I: FS = 300A], cosφ=0.5) – FLEX clamp | | | | | |
|---|----------------------------------|------------------|----------------|--|--|
| Current range [mV] | Range [VAr] | Resolution [VAr] | Accuracy | | |
| 0.085 ÷ 0.510 | 0.0 ÷ 999.5 1.000k ÷ 9.999k | 0.5 0.005k | Not available | | |
| 0.510 ÷ 2.55 | 10.00k ÷ 99.99k | 0.05k | ±(2.0%reading) | | |
| 2.55 ÷ 25.5 | 100.0k ÷ 999.9k 1000k ÷ 9999k | 0.5k 5k | ±(1.5%reading) | | |

Fundamental frequency: 42.5Hz ÷ 69Hz, Crest factor voltage and current: 1.41

| AC Reactive Power – (V:[80% 120%Udin], I: FS = 3000A], cosφ=0.5) – FLEX clamp | | | | | |
|---|----------------------------------|------------------|----------------|--|--|
| Current range [mV] | Range [VAr] | Resolution [VAr] | Accuracy | | |
| 0.85 ÷ 5.10 | 0 ÷ 9999 10.00k ÷ 99.99k | 5 0.05k | Not available | | |
| 5.10 ÷ 25.5 | 100.0k ÷ 999.9k | 0.5k | ±(2.0%reading) | | |
| 25.5 ÷ 255 | 1000k ÷ 9999k 1.000M ÷ 9.999M | 5k 0.005M | ±(1.5%reading) | | |

Fundamental frequency: 42.5Hz ÷ 69Hz, Crest factor voltage and current: 1.41

| AC Reactive Power – (V:[80% 120%Udin], I: FS = 6000A], cosφ=0.5) – FLEX clamp | | | | | |
|---|----------------------------------|------------------|----------------|--|--|
| Current range [mV] | Range [VAr] | Resolution [VAr] | Accuracy | | |
| 1.7 ÷ 10.2 | 0 ÷ 9999 10.00k ÷ 99.99k | 5 0.05k | Not available | | |
| 10.2 ÷ 51.0 | 100.0k ÷ 999.9k | 0.5k | ±(2.0%reading) | | |
| 51.0 ÷ 510 | 1000k ÷ 9999k 1.000M ÷ 9.999M | 5k 0.005M | ±(1.5%reading) | | |

Fundamental frequency: 42.5Hz ÷ 69Hz, Crest factor voltage and current: 1.41

| AC Reactive Power – (V:[80% 120%Udin], I: FS = 10000A], cosφ=0.5) – FLEX clamp | | | | | |
|--|----------------------------------|------------------|----------------|--|--|
| Current range [mV] | Range [VAr] | Resolution [VAr] | Accuracy | | |
| 1.7 ÷ 10.2 | 0 ÷ 9999 10.00k ÷ 99.99k | 5 0.05k | Not available | | |
| 10.2 ÷ 51.0 | 100.0k ÷ 999.9k | 0.5k | ±(2.0%reading) | | |
| 51.0 ÷ 850 | 1000k ÷ 9999k 1.000M ÷ 9.999M | 5k 0.005M | ±(1.5%reading) | | |

Fundamental frequency: 42.5Hz ÷ 69Hz, Crest factor voltage and current: 1.41

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4. GENERAL SPECIFICATIONS (*)

DISPLAY:

Features: graphic, color TFT 3.5", resistive touch screen, backlit

POWER SUPPLY:

Internal power supply: 6x1. 5V alkaline batteries type AA IEC LR6 or

6x1.2V NiMH rechargeable batteries type AA IEC LR6

Battery charging condition: charging possible with ambient temp. between 0°C and 40°C

Battery life in charge (@ Temp = 20°C): > 6 hours continuous recording

External power supply: A0080 adapter (100 ÷ 415V, CAT IV300, 15V)
Auto-off: after 5 minutes of non-use (without power supply)

MEMORY AND PC INTERFACE

Memory: External SD card 32GB (HC Class 1)

PC interface: USB-C, Ethernet, WiFi

MECHANICAL CHARACTERISTICS

Dimensions (W x W x H): 225 x 165 x 75mm

Weight (including battery): 1.2kg
Mechanical protection: IP40

ENVIRONMENTAL CONDITIONS:

Reference temperature: $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Operating temperature: $-10^{\circ}\text{C} \div 40^{\circ}\text{C}$

Permissible relative humidity: 10°C ÷ 30°C → <95% RH (non-condensing)

30°C ÷ 40°C → <75% RH (non-condensing) 40°C ÷ 50°C → <45% RH (non-condensing)

Storage temperature: -20°C ÷ 60°C

Max height of use: 2000m

REFERENCE GUIDELINES:

Safety: IEC/EN61010-1, IEC/EN61010-2-030

EMC: IEC/EN61326-1 double insulation

Pollution degree: 2

Measurement category: CAT IV 600V, CAT III 1000V to ground

max 1000V between inputs

Measurements: IEC/EN61000-4-30 – Class S (Voltages and Currents)

Network Quality: EN50160

Flicker: IEC/EN61000-4-15 Harmonics, Inter-harmonics, Unbalanced: IEC/EN61000-4-7

This instrument complies with the requirements of the European Low Voltage Directive 20 14/35/EU (LVD), EMC Directive 2014/30/EU and RED 2014/53/EU

This tool complies with the requirements of the European Directive 2011/65/EU (RoHS) and the European Directive 2012/19/EU (WEEE)

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