

APPLICATIONS

- Power Supplies Tests
- Motor Tests

- Household Appliances Tests
- Electronics

- Energy Star
- Test Systems

Your Power Testing Solution



IT9100Power Meter



The IT9100 power meter can provide the maximum input of 1000 Vrms and 50 Arms and measurement bandwidth of 100 KHz, and can be easily used for measuring the voltage, current, power, frequency, harmonics and other parameters. The standard configuration includes USB, RS232 and LAN communication interfaces and also interfaces for USB-based peripheral devices. Users can save the measured parameters into the external storage medium. The basic voltage and current accuracy is 0.1%. Moreover, the power meter has rich integrating functions, such as the active power. It is widely applied in test of motors, household appliances, UPS, etc.

Features

- 4.3-inch color LCD (TFT)
- Input range: 1000 Vrms / 50 Arms
- Harmonic Detection
- The accuracy of voltage and current measurement is up to 0.1%
- The voltage, current, power, harmonics and other parameters can be measured at the same time
- The power meter has a function of harmonic measurement, and can be used for measuring up to 50th harmonics *1
- *1 Optional function for IT9121E
- *2 For any GPIB interface option request, check with ITECH for availability.

- The power meter has rich and powerful integrating functions, and can be used for measuring electric energy which is bought or sold
- The interfaces for USB-based peripheral devices are provided, and the user can *save data into the external storage medium
- Standard built-in USB, RS232 and Ethernet communication interfaces.

Electronic devices with power source unit

- UPS
- Household appliances
- Motor
- Energy Star
- Switching Power Supply











Self-define Interface display style

IT9100 series power meter provide a 4.3-inch color high-resolution TFT LCD for the user, and real-time values can be displayed with high brightness and remarkable colors even in a dark test environment. In addition, the IT9121 power meter provides multiple interface display styles (View1,View4 and View12). The user can customize the screen display parameter type and display sequence. The humane design meets engineers' measurement demands in different tests.



IT9100 power meter

Rich Measurement Functions

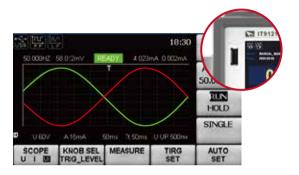
The IT9100 power meter can measure all AC and DC parameters, including the active power, reactive power, apparent power, power factor, voltage, current, frequency, phase difference, etc. It also has the function of integral measurement and up to 50th harmonic measurement. It is widely applied in tests of motors, household PCB, UPS, etc.

Oscilloscope function

IT9100 series power meter can display the waveform basing on sampling data. You can choose to display or hide the waveform of the input voltage and current.

Oscilloscope function of IT9100 series power meter allow users to directly observe the display fluctuations of voltage, current and power trends when testing household appliances performance, and can set the display trends, waveforms, values, histograms. Users can directly capture the waveform and record the value without external oscilloscope via external USB storage interface.





Integral Measurement Function

Due to the power integral function, the sold/bought electric energy in the interconnected power grids can be measured. IT9100 series power analyzer can provide the current integral and active power integral (Wh). Automatic range switching and accurate integral measurement can be carried out in the Buy and Sell mode, according to the input level.

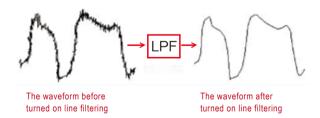
Harmonic Measurement

The IT9121 power meter has a bandwidth of 100KHz, which can realize high-speed harmonic measurement within a wider dynamic range. In the harmonic mode, the voltage, the current, the active power, reactive power and phase of each harmonic and the factor of total harmonic distortion (THD) can be tested.

Line and frequency filtering

IT9100 filter out the useless frequency components in the signal, improve the purity of the waveform, so as to improve the test accuracy. The frequency filter refers to filter out the high frequency components of interfere, making the measured frequency parameters more accurate.

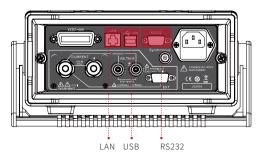
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Built-in abundant interfaces

IT9100 series power meter built-in RS232/USB/LAN interfaces without extra purchase, high selectivity, save cost, and provide USB-Host interface for users, which can be used to connect with U disk directly and save the data and waveform of user test interface.

IT9121 series power meter built-in RS232/USB/LAN interfaces without extra purchase, high selectivity, save cost.



IT9100 power meter

Current sensor input

IT9100 power meter provide measurement range with voltage 0 ~ 1000V. current 0 ~ 50A. For current measurement above 50 A, voltage input current clamp or current sensor can be used.

IT9100 allow users to select 50mV-2V (EX1) or 2.5V-10V (EXT2) range.



IT-E185 power meter fixture

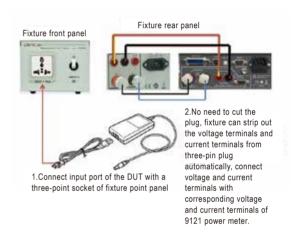
IT-E185 power meter fixture is an optional accessory that ITECH provide, users can easily implement IT9100 series power meter wiring test.



IT9100 series power meter provide optional accessories Test IT-E185(250V/15A), Easy to use

Applications

Test the AC input power consumption of the AC-DC adapter, IT9100 is required to be series to the lines between adapter and civil use AC network. Users can wire simply without destroying the original plug by using IT-E185.



IT9100 Power Meter Application

Energy Star applications

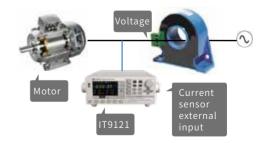
Minimum current range of IT9100 series power meter is 5mA, the measured display number is 5, IT9100 can more accurately measure the standby product's current value, as well as power value, meet the ENERGY STAR test requirements.

Household appliances power consumption testing applications

- ☑ Auto range function in integral mode
- ✓ IT9100 series power meter can measure power factor, harmonic, efficiency, power consumption, crest factor and other parameters.

Motor testing applications

- ✓ long time integral measurement
- ☑ Frequency bandwidth: DC, 0.5Hz to 100kHz
- ☑ IT9100 power integration function can measure the power grid to sell / buy electricity. IT9100 power meter provides current integration and active power integration (Wh). Can buy and sell electricity in the mode, according to the size of the input level, IT9100 can automatically switch range and accurately perform integral measurement according to the input level in the buy electricity and sell electricity mode.



IT9100 power meter

AC/DC electronic load

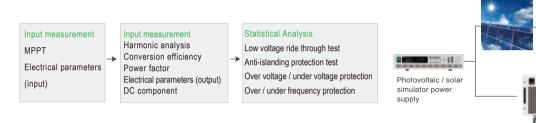
Charging station industry application

In recent years, with the increasing subsidy efforts of the state on the new energy automotive industry, coupled with gradual improvement of supportive policies, the new energy automotive industry has made considerable progress. However, the construction of supporting facilities such as charging stations will also need to be resolved urgently. ITECH power meter provides a full range of test solutions for the overall equipment of charging station, designed to help users provide a strong basis for charging station design.

- Charging station efficiency measurement
 Charging station input harmonic measurement
- Charging station standby power consumption measurement

Photovoltaic wind power industry applications

The IT9100 series power meter can accurately measure the input, output voltage, current, power, and other electrical parameters of new energy inverters. And can provide accurate efficiency, harmonics and low voltage ride through testing and other functions.



Power industry applications

Switching power supply and UPS power supply are currently one of the most used powers. Switching power supply is widely used in almost all electronic devices with small size, light weight and high efficiency. And UPS is using the inverter principle, to provide stable, uninterrupted power supply to load. Because of the large number of uses, international standards give a clear indicator for switching power supply on the grid harmonic pollution. IT9100 switching power supply can provide a comprehensive parameter measurement for research and development and production stage of switching power supply.



Set the maximum number of THD calculations

- Just one power meter can complete the efficiency measurement
- · Average active power measurement in integral mode

| | IT9121 | IT9121C | IT9121H | IT9121E |
|--|--|--|--|---|
| Measuring range | 600Vrms/20Arms | 600Vrms/50Arms | 1000Vrms/20Arms | 600Vrms/20Arms |
| Voltage range | 15V~600V A total of 6 ranges | 15V~600V A total of 6 ranges | 15V~1000V A total of 7 ranges*1 | 15V~600V A total of 6 ranges |
| Direct input current range (CF=3 | 5mA~20A A total of 12 ranges | 1A~50A A total of 6 ranges | 5mA~20A A total of 12 ranges | 5mA~20A A total of 12 ranges |
| External current input (CF=3) | EX1:50mV~2V A total of 6 ranges | EX1:5V/10V A total of 2 ranges | EX1:2.5V/5V/10V A total of 3 ranges | EX1:50mV~2V Atotal of 6 ranges |
| | EX2:2.5V/5V/10V A total of 3 ranges | EX2:100mV~2.5V A total of 6 ranges | EX2:50mV~2V A total of 6 ranges | EX2:2.5V/5V/10V Atotal of 3 ranges |
| Accuracy | 0.1% | 0.1% | 0.1% | 0.1% |
| Bandwidth | DC,0.5HZ~100KHZ | DC,0.5HZ~100KHZ | DC,0.5HZ~100KHZ | DC,0.5HZ~100KHZ |
| Communication Interface* | USB | USB | USB | USB |
| | USB peripheral interface | USB peripheral interface | USB peripheral interface | USB peripheral interface |
| | RS232 | RS232 | RS232 | RS232 |
| | Ethernet | Ethernet | Ethernet | Ethernet |
| Measure the voltage, current, power and harmonic parameters at the same time | √ | √ | J | J |
| Frequency measurement function | √ √ | \checkmark | √ | √ |
| Frequency filter | Select OFF or ON (cutoff frequency is 500HZ) | Select OFF or ON (cutoff frequency is 500HZ) | Select OFF or ON (cutoff frequency is 500HZ) | SelectOFForON(cutofffrequencyis500HZ) |
| Line filter | Select OFF or ON (cutoff frequency is 500HZ) | SelectOFForON(cutofffrequencyis500HZ) | Select OFF or ON (cutoff frequency is 500HZ) | Select OFF or ON (cutofffrequency is 500HZ) |
| Harmonic measurement | Standard | Standard | Standard | Optional |
| Measure the number of harmonics | 50 times | 50 times | 50 times | 50 times |
| Single harmonic analysis function | √ | √ | 1 | √ |
| Oscilloscope function | √ | √ | √ | √ |
| Current integration, active power integration | √ | √ | √ | √ |
| Automatic range | √ | √ | √ | √ |
| Measure the synchronization source | √ | √ | √ | √ |
| Display | TFT 4.3-inch color LCD TFT | TFT 4.3-inch color LCD TFT | TFT 4.3-inch color LCD TFT | TFT 4.3-inch color LCD TFT |
| Characteristic | Freely set the screen displa | av matrix number of columns and c | ommonly used measurement para | meter value display |

IT9100 power meter

Specification

| General Specific | ation |
|---------------------------|--|
| Model | IT9121 & IT9121E & IT9121C & IT9121H |
| AC input voltage | 100 VAC — 240 VAC 47-63 Hz |
| Warm-up time | Above 30 minutes |
| Operating environment | Temperature: 5 C — 40 C Humidity: 30% RH— 75% RH (No condensation) Altitude: 2000 m or less 2000 m |
| Storage environment | Temperature : -20 $^{\circ}$ C — 50 $^{\circ}$ C Humidity : 30% RH — 75% RH (No condensation) Altitude : 2000 m or less 2000 m |
| Installation | Indoors |
| Safety | IEC 61010-1, EN 61010-1, Measurement CAT II |
| Maximum power consumption | 50 VA |

| Screen Display | |
|----------------|--|
| | Detailed Information |
| Display type | Dimension: 4.3-inch color TFT display Full screen pixel: 480 (horizontal) *272 (vertical) points Waveform display pixel: 384 (horizontal) *194 (vertical) points Operating temperature: -20 C ~ 70 C Storage temperature: -30 C ~ 80 C Value display: matrix display |

| | | Value display: matrix display | | |
|-------------------|----------------|--|--|--|
| Input | | | | |
| Item | | Specifications | | |
| Input te | rminal type | voltage; plug-in terminal (safety terminal) | | |
| Input ty | /pe | Current Direct input: large binding post External current sensor input DB9 connector | | |
| Input ty | /pe | Voltage: Floating input through resistive voltage divider Current: Floating input through shunt | | |
| Voltage | Crest factor 3 | IT9121/E: 15V/30V/60V/150V/300V/600V IT9121C: 15V/30V/60V/ 150V/300V/600V | | |
| | | IT9121H: 5V/30V/60V/150V/300V/600V/1000V(CF=1.5) | | |
| | Crest factor 6 | IT9121/E: 7.5V/15V/30V/75V/150V/300V | | |
| | | IT9121C: 7.5V/15V/30V/75V/150V/300V IT9121H: 7.5V/15V/30V/75V/150V/300V/500V(CF=3 | | |
| Direct Current | Crest factor 3 | IT9121/E: 5mA/10mA /20mA /50mA /100mA / 200mA /0.5A/1A/2A/5A/10A/20A | | |
| input | | IT9121C: 1A/2A/5A/10A/20A/50A | | |
| iiiput | | IT9121H: 5mA/10mA /20mA /50mA /100mA / | | |
| | | 200mA /0.5A/1A/2A/5A/10A/20A | | |
| | Crest factor 6 | T9121/E: 2.5 mA /5mA/10mA/25mA/50mA/100mA/ 250mA/0.5A/1A/2.5A/5A/10A. | | |
| | | IT9121C: 1A/2A/5A/10A/20A/50A | | |
| | | IT9121H: 2.5 mA /5mA/10mA/25mA/50mA/100mA/ 250mA/0.5A/1A/2.5A/5A/10A. | | |
| External | Crest factor 3 | IT9121/E: 2.5V/5V/10 V | | |
| Current | | IT9121C: 5V/10 V | | |
| sensor | | IT9121H: 2.5V/5V/10 V | | |

| Input impedance | Voltage: Input resistance: Approx. 2 MΩ, input capacitace: | | | |
|------------------|--|--|--|--|
| | Approx.13 pF (in parallel with the resistance) | | | |
| | current: | | | |
| | Direct input range 5 mA ~ 200 mA: | | | |
| | Input resistance: Appro x 505 mΩ | | | |
| | Input inductance: Appro x 0.1 μH | | | |
| | Direct input range 0.5A ~ 20 A: | | | |
| | Input resistance: Appro x 5 mΩ | | | |
| | Input inductance: Appro x 0.1 μH | | | |
| | Sensor input: | | | |
| | Input resistance:Appro x 100 k Ω (2.5 V ~ 10 V) Input resistance:Appro x 20 k Ω (50 mV ~ 2 V) | | | |
| Input bandwidth | DC, 0.5 Hz ~ 100kHz | | | |
| Line filter | select OFF, cut off frequency of 500 Hz | | | |
| Frequency filter | select OFF, cut off frequency of 500 Hz | | | |
| Range | range of each unit can be set separately | | | |
| A/D converter | Simultaneous conversion voltage an current inputs | | | |
| | Resolution: 18-bit | | | |
| | Maximum conversion rate: 10 μs | | | |
| | | | | |

| Voltage and Current | Accuracy |
|---------------------|---|
| Item | Specifications |
| Requirements | temperature: 23 ± 5 °C humidity: 30~75% RH Input waveform: Sine wave crest factor: 3, common-mode voltage: 0 V Number of displayed digits: 5 digits (6 digits when including the decimal point) Frequency filter: Turn on to measure voltage or current of 200 Hz or 30 minutes after warm-up time has passed After zero-level compensation or measurement range is changed |
| Accuracy | DC: \pm (0.1% of reading + 0.2% of range) 10 Hz \leq f < 45 Hz: \pm (0.1% of reading + 0.2% of range) 45 Hz \leq f \leq 66 Hz: \pm (0.1% of reading + 0.1% of range) 66 Hz $<$ f \leq 1kHz: \pm (0.1% of reading + 0.2% of range) 1 kHz $<$ f \leq 10 kHz: \pm (0.07 *f) % of reading + 0.3% of range) 10 kHz $<$ f \leq 100 kHz: \pm (0.5% of reading + 0.5% of range) \pm [{0.04x(f-10)}% of reading |

| Item | Specifications |
|--|--|
| Requirements | same as the conditions for voltage and current. Power factor:1 |
| Accuracy | DC: (0.1 % of reading + 0.2 % of range) $10\text{Hz} \leq f < 45 \text{ Hz}: \pm (0.3 \% \text{ of reading} + 0.2 \% \text{ of range}) \\ 45 \text{ Hz} \leq f \leq 66 \text{ Hz}: \pm (0.1 \% \text{ of reading} + 0.1 \% \text{ of range}) \\ 66 \text{ Hz} < f \leq f \leq 1 \text{ kHz}: \pm (0.2 \% \text{ of reading} + 0.2 \% \text{ of range}) \\ 1 \text{ kHz} < f \leq 10 \text{ kHz}: \\ \pm (0.1 \% \text{ of reading} + 0.3 \% \text{ of range}) \pm \{\{0.067x(f-1)\}\% \text{ of reading} + 0.5 \% \text{ of range}) \pm \{\{0.09x(f-10)\}\% \text{ of reading} + 0.5 \% \text{ of range}\} \pm \{\{0.09x(f-10)\}\% \text{ of reading}\}$ |
| Influence of power factor | when power factor (λ)=0 (S:apparent power) • \pm 0.2 % of S for 45 Hz \leq f \leq 66 Hz • \pm {(0.2 + 0.2 × f) % of S } for up to 100 kHz as reference data f is frequency of input signal in kHz when 0 < λ < 1 (Φ : phase angle of the Voltage and current) (power reading) ×[(power reading error%)+(power range%)× (power range/indicated apparent power value)+{tan Φ × (influence when λ =0)%} |
| When the line filter is turned ON | 45 ~ 66 Hz: Add 0.3 % of reading < 45 Hz: Add 1 % of reading |
| Temperature coefficient | same as the temperature coefficient for voltage and current |
| Accuracy when the crest factor is set to 6 | accuracy obtained by doubling the measurement range error for the accuracy when the crest factor is set to 3 |
| Accuracy of apparent power S | voltage accuracy +current accuracy |
| Accuracy of reactive power Q | accuracy of apparent power + $((\sqrt{1.0004 - \lambda_2}) - (\sqrt{1 - \lambda_2})) \times 100\%$ |

(/EX1) Crest factor 6 IT9121/E: 1.25V/2.5V/5V

Current

sensor

input (/EX2)

IT9121C: 2.5V/5V IT9121H: 1.25V/2.5V/5V External Crest factor 3 IT9121/E: 50mV/100mV/200mV/500mV/1V/2V

IT9121C: 100 mV /250 mV /500 mV /1V/2.5V

IT9121H: 50mV/100mV/200mV/500mV/1V/2V

Crest factor 6 | IT9121/E: 25mV/50mV/100mV/250mV/50mV/1V | IT9121C: 50 mV /125 mV /250 mV /0.5V/1.25V | IT9121H: 25mV/50mV/100mV/250mV/500mV/1V

IT9100 power meter

| Accuracy of power factor λ | \pm [(λ - λ /1.0002)+ cosø-cos{ø+sin-1 (influence from the power factor when λ = 0%/100)}] \pm 1digit when voltage and current are at the measurement range rated input |
|--------------------------------|---|
| Accuracy of phase difference Φ | \pm [ø-cos-1(λ /1.0002) +sin-1(influence from the power factor when λ = 0 %/100)] \pm 1digit when voltage and current are at the measurement range rated input |

Voltage, Current and Power Measurements

Wiring system

Specifications Digital sampling method Measurement method

Crest factor

Range select select manual or auto ranging

Auto range auto-range increase

auto-range decline

(one element model): single-phase , two-wire(1 P2 W)

| | Name | Symbols And Meanings | |
|--|--|---|--|
| | Voltage current | Select RMS (the effective RMS value of voltage andcurrent). MEAN: (the rectified mean value calibrated to the RMS value of the voltage and the true RMS value of the current). RMN (rectified mean value of voltage and current) DC: (simple average of voltage and current) AC: alternating current. PP: (peak value of voltage and peak value of current) | |
| | Active power [W] | P | |
| Measurement | Reactive power [var] | Q | |
| parameters | Apparent power [VA] | S | |
| | Power factor | λ | |
| | Phase di fference (°) | φ | |
| | Frequency (Hz) | fU(FreqU): voltage frequency fl(FreqI): current frequency | |
| | Max/min of voltage (V) | Upk+: voltage positive peak Upk-: voltage negative peak | |
| | Max/min of current (A) | Ipk+: current positive peak Ipk-: current negative peak | |
| | Crest factor | CfU: crest factor of voltage Cfl: crest factor of current | |
| | Integration | TM: integration time, WP: sum of positive and negative wath hour, WP+: positive power sum, WP: negative power sum, q: sum of positive and negative ampere-hour, q+: positive ampere -hour sum, q-: negative ampere-hour sum | |
| Measurement synchronization source | Select voltage, current, or the entire period of the data updata interval for the | | |
| Line filter | Select OFF or ON (cut off frequency at 200 Hz) | | |
| Peak measurement | Measures the peak (max, min) value of voltage, current or power from the instantaneous current or instantaneous power that is sampled. | | |

Frequency Measurement

| Item | Specifications | | |
|----------------------|---|----------------------|--|
| Measurement item | Voltage or current frequencies applied to one selected input element can be measured | | |
| | Vaties depending on the data update interval (see description given later) as follows | | |
| | Data update interval | Measurement range | |
| | 0.1 s | 25 Hz ≤ f ≤ 100 kHz | |
| Frequency test range | 0.25 s | 10 Hz ≤ f ≤ 100 kHz | |
| , , | 0.5 s | 5 Hz ≤ f ≤ 100 kHz | |
| | 1 s | 2.5 Hz ≤ f ≤ 100 kHz | |
| | 2 s | 1.5 Hz ≤ f ≤ 50 kHz | |
| | 5 s | 0.5 Hz ≤ f ≤ 20 kHz | |
| Frequency filter | Select OFF or ON (cut off frequency of 200 Hz) | | |
| Accuracy | Requirements: When the input signal level is 20 % or more of the measurement range and the crest factor is set to 3 (40 % or more if the crest factor is set to 6). | | |

Harmonic Measurement

Measured item All installed elements PLL synchronization method Method Frequency range Fundamental frequency of the PLL source is in the range of 10 Hz to 1.2 kHz PLL source Select voltage of current of each input element FFT data length

| | Name | Symbols and Meanings | | |
|-----------------------|------------------------------------|---|-----------------------------------|--|
| | Voltage (V) | U(k) : voltage effective value of Kth harmonic | U(Total) voltage effective value | |
| | Current (A) | I(k): curent effective value of Kth harmonic | I(Total) : curent effective value | |
| | Active power (W) | P(k): active power of Kth harmonic | P(Total) : Active power | |
| | Apparent power (VA) | S(k): apparent power of Kth harmonic | S(Total): total apparent power | |
| | Reactive power (var) | Q(k): reactive power of Kth harmonic | Q(Total) : total reactive power | |
| В. | Power factor | λ(k): power factor of Kth harmonic | λ(Total): Total power factor | |
| measurement parameter | Phase difference | φ(k): phase difference between voltage and current of Kth harmonic φU(k) yoltage phase difference between Kth harmonic(UK) and fundamental wave(U1) φI(k): current phase difference between Kth harmonic(IK) and fundamental wave(11) | φ:total phase difference | |
| Ϋ. | Harmonic distortion factor(%) | lem:lem:lem:lem:lem:lem:lem:lem:lem:lem: | | |
| | (THD) total harmonic distortion | Uthd: voltage ratio of total harmonic and fundmental wave(U1) or total distortion wave(Utotal). Ithd: current ratio of total harmonic and fundmental wave(I1) or total distortion wave(Itotal). Pthd: active power ratio of total harmonic and fundmental wave(P1) or total distortion wave(Ptotal) | | |
| Window function | Rectangle | | | |

- This function is only available for IT9121, optional function for IT9121E.
- K is a integer from 0 to upper limit of harmonic analyse times. 0th means DC parameter.
 User can configure the maximum number of harmonic times manually or auto-decided by
- equipment, taking the minmum value between the two methods.
- IT9121 can measure up to 50th harmonic.

Fundamental Frequency

| Fundamental frequency | Sample rate | Window width | Upper limit of* analysis orders |
|-----------------------|-------------|--------------|------------------------------------|
| 10 Hz ~ 75 Hz | f * 1024 | 1 | 50 |
| 75 Hz ~ 150 Hz | f * 512 | 2 | 32 |
| 150 Hz ~ 300 Hz | f * 256 | 4 | 16 |
| 300 Hz ~ 600 Hz | f * 128 | 8 | 8 |
| 600 Hz ~ 1200 Hz | f * 64 | 16 | 4 |

^{*} the upper limit of analysis orders can be decreased

Accuracy

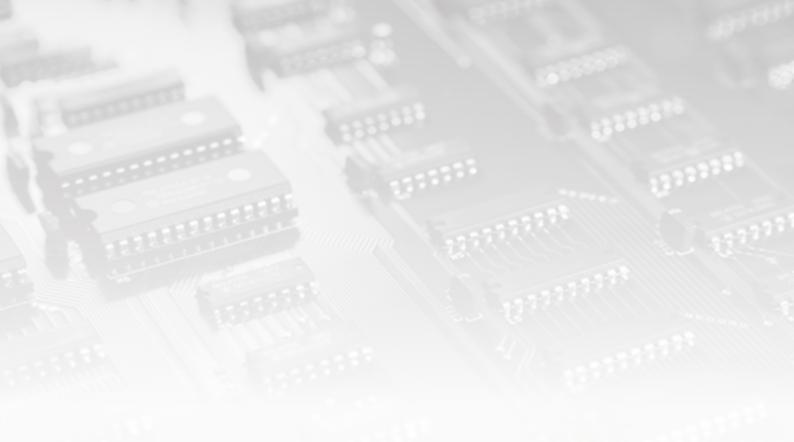
* When line filter is off, the accuracy shown below is the sum of reading and range errors

| Frequency | Voltage | Current | Power |
|---------------------|-----------------|------------------|------------------|
| 10 Hz ≤ f < 45 kHz | 0.15%of reading | 0.15%of reading | 0.15%of reading |
| | +0.35%of range | +0.35%of range | +0.50%of range |
| 45 Hz ≤ f ≤ 440 kHz | 0.15%of reading | 0.15%of reading | 0.20% of reading |
| | +0.35%of range | +0.35%of range | +0.50% of range |
| 440 Hz < f ≤ 1 kHz | 0.20%of reading | 0.20% of reading | 0.40%of reading |
| | +0.35%of range | +0.35% of range | +0.50%of range |
| 1 kHz < f ≤ 2.5 kHz | 0.80%of reading | 0.80% of reading | 1.56%of reading |
| | +0.45%of range | +0.45% of range | +0.60%of range |
| 2.5 kHz< f≤ 5 kHz | 3.05%of reading | 3.05%of reading | 5.77%of reading |
| | +0.45%of range | +0.45%of range | +0.60%of range |

Interface

- USB • RS232
- Ethernet

^{*} For any GPIB interface option request, check with ITECH for availability.





This information is subject to change without notice. For more information, please contact ITECH.

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