

BK5335B

Power Meter



BK5335B
Power Meter

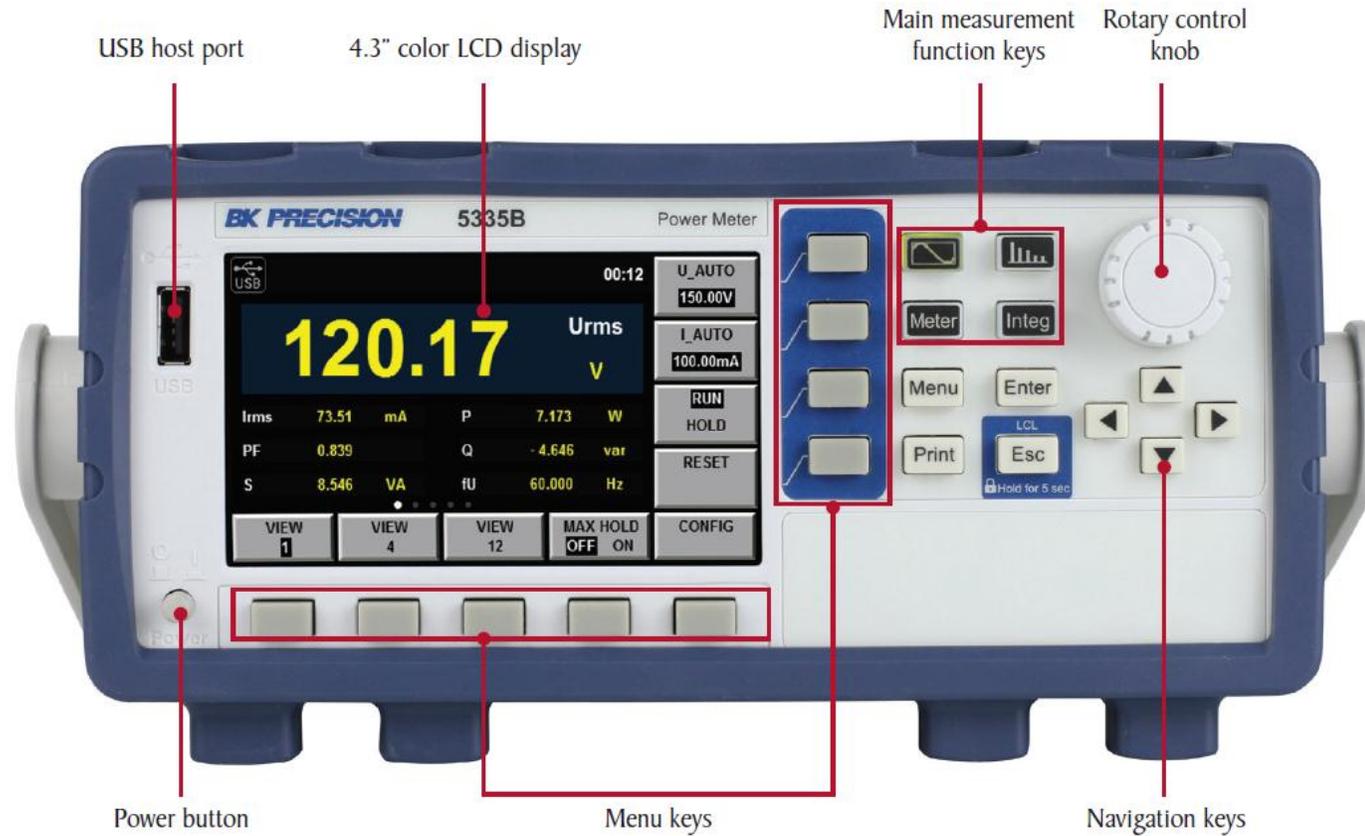
Overview

- 4.3 inch color LCD display
- 600 Vrms (Cat II) and 20 Arms direct input ranges
- Frequency ranges DC, 0.5 Hz to 100 kHz
- Simultaneously measure and display up to 12 measurement parameters
- Capture inrush current, and voltage surge with the peak function
- Harmonic measurements to the 50th order
- Ability to measure electrical energy which is produced or consumed
- Standard USB, GPIB, RS232 and LAN interfaces
- 3 Year Warranty



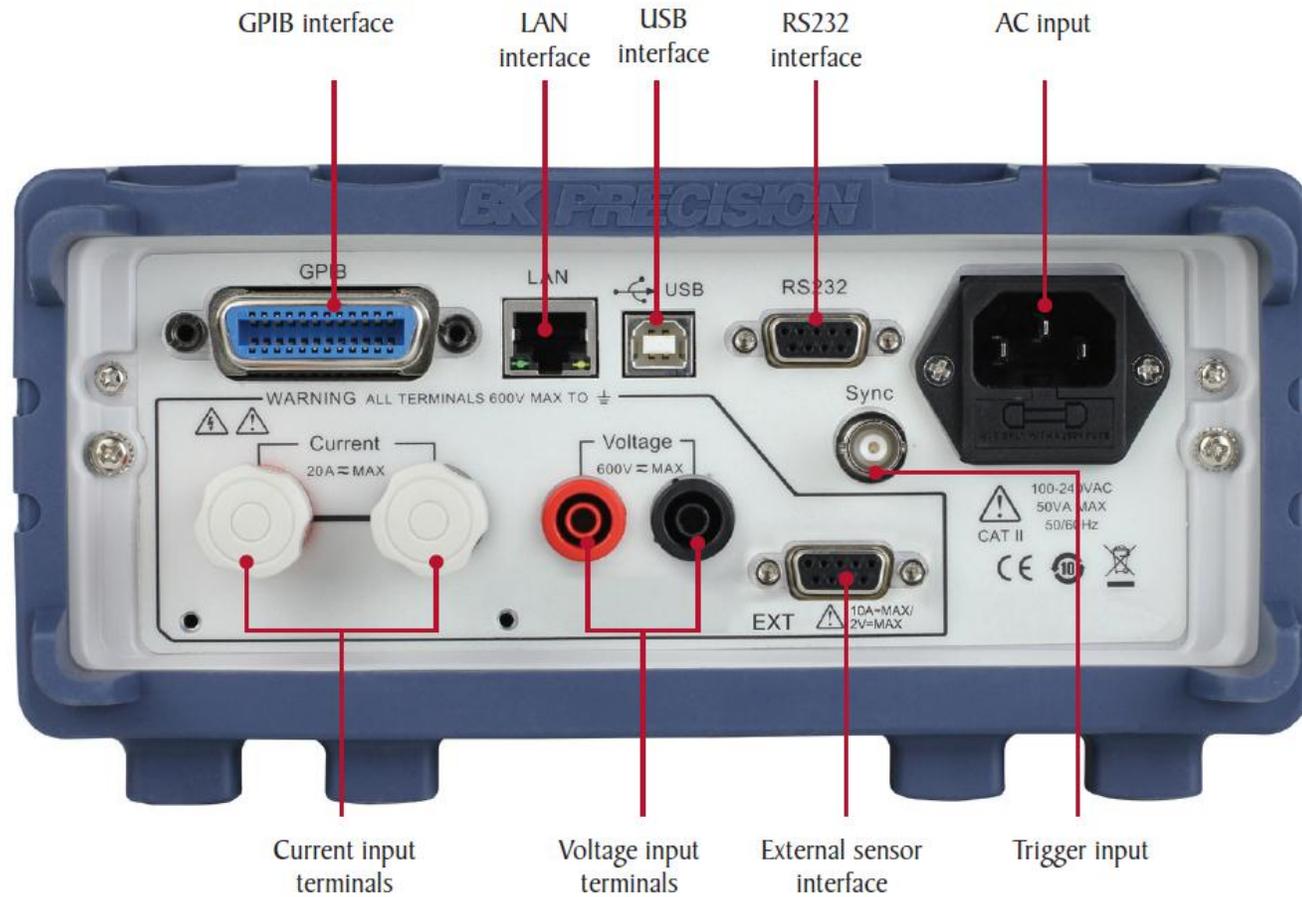
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Front Panel



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Rear Panel



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Flexible Operation

Harmonic measurement

Voltage, current, active power, reactive power and phase values of each harmonic can be measured and displayed as a list or bar chart, enabling the user to quickly visualize and analyze the results. Total harmonic distortion (THD) can be evaluated up to the 50th order with the ability to display individual harmonic components.



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Flexible Operation

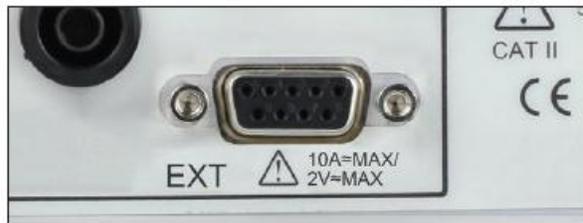
Current sensor input

Current sensor input

Current measurements above 20 A are supported by connecting an external current sensor to the external sensor interface.

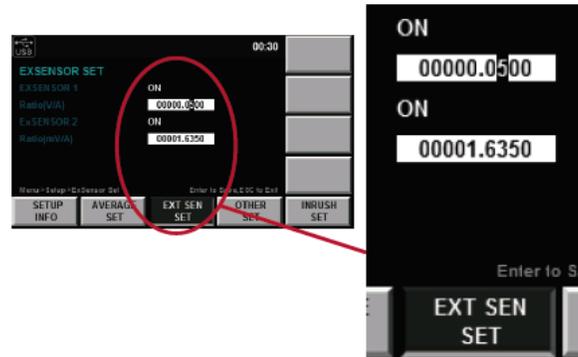


Example current transducers



External sensor

To accommodate commonly available current sensor types, users can select from the 50 mV - 2 V or 2.5 V - 10 V ranges.



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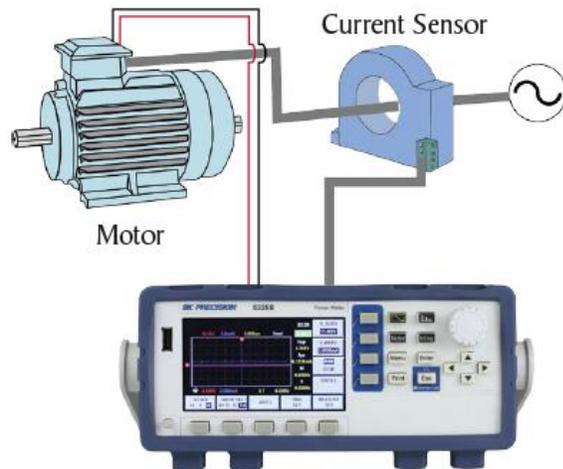


Flexible Operation

Motor testing, Integration measurement, Oscilloscope function

Motor testing

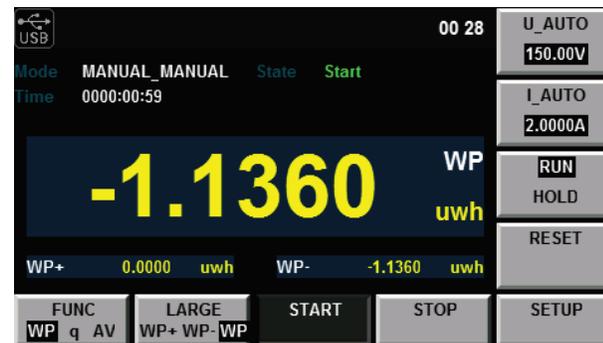
Many industrial products use PWM as a speed control method. The 5335B is able to measure input signals ranging from 0.5 Hz - 100 kHz and input voltages up to 600 V. Current can be monitored directly or by using external industry standard sensors.



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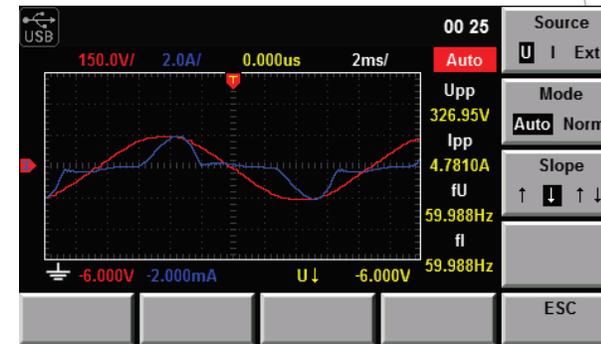
Integration measurement

The integration function is useful for analyzing bought and sold electrical energy of a grid tied power systems. The 5335B meter provides current integral and active power integral (Wh) functionality using automatic range switching for accurate measurement results.



Oscilloscope function

Displays waveforms of sampled voltage and current.



Flexible Operation

Optional universal breakout box

The optional TLBB53 breakout box simplifies AC line connection between the power meter and the DUT, and eliminates the need to cut the power cord and strip wires to connect to the power meter. This breakout box supports easy plug in connection and uses a universal socket to support most plugs used worldwide. A circuit breaker/ switch is also provided for additional protection.



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Price information



BK5335B:
2595 €



TLBB53:
260 €

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Competitive Comparison

Company / Model	BK Precision / 5335B	Yokogawa / WT310E	Tektronix / PA1000	R&S / HMC8015	R&S / HMC8015
					
Channels	1	1	1	1	1
List price	2 595 €	≈ 2 300 €	3 170 €	1 650 €	1 750 €
Configured with THD, LAN, and external sensor input or with option	2 595 €	≈ 3 350 €	3 170 €	2 844 €	2 944 €
Basic Power Measurement Accuracy (50/60 Hz)	0,1%	0.1%	0,04%	0,05%	0,05%
Input bandwidth	DC, 0.1 Hz to 100 kHz	DC, 0.1 Hz - 100 kHz	DC, 10 Hz - 1 MHz	DC, 0.1 Hz - 100 kHz	DC, 0.1 Hz - 100 kHz
Harmonic order	50	50	50	50	50
Maximum number of displayed measurements	12	4	14	26	26
Direct input current ranges	12 Ranges (5 mA to 20 A)	12 Ranges (5 mA to 20 A)	20 Ranges (20 µA to 20 A)	12 Ranges (5mA to 20A)	12 Ranges (5mA to 20A)
External current sensor input	✓	Optional (≈ 150 €)	✓	Opt HOC/HVC152	Opt HOC/HVC152
Maximum AC voltage range	600 Vrms	300 Vrms	600 Vrms	600Vrms	600Vrms
Harmonic measurement	✓	with G5 option (≈ 400 €)	✓	Opt HOC/HVC151	Opt HOC/HVC151
Harmonic bar charts	✓	✗	✓	Opt HOC/HVC151	Opt HOC/HVC151
Waveform display	✓	✗	✓	Opt HOC/HVC151	Opt HOC/HVC151
EN61000-3-2 standard	✓	✓	✓	Opt HOC/HVC153	Opt HOC/HVC153
Display type	Large full color TFT	4 x 7 Segment numerical LED	Large full color TFT	Large full color TFT	Large full color TFT
Parameters	Volts rms, Volts Peak, Volts DC, Amps rms, Amps peak, Amps DC, Ampere Harmonics, Watt, Watt Peak, Watt Hour, Real Power, Reactive Power, Voltage Crest Factor, Current Crest Factor, Frequency, Total Harmonic Distortion, Distortion Factor, Phase, Integration Time	Volts rms, Volts Peak, Volts DC, Amps rms, Amps peak, Amps DC, Ampere Harmonics, Watt, Watt Peak, Real Power, Reactive Power, Watt Harmonic, Watt Ampere Hour, Voltage Crest Factor, Current Crest Factor, Frequency, With additional G5 option: Total Harmonic Distortion, Distortion Factor, Integration Time, Phase	Volts rms, Volts Peak, Volts DC, Amps rms, Amps peak, Amps DC, Amper Harmonics, Watt, Watt Peak, Real Power, Reactive Power, Power Factor, Watt Harmonic, Watt Ampere Hour, Voltage Crest Factor, Current Crest Factor, Frequency, Total Harmonic Distortion, Distortion Factor, Phase, Impedance, Resistance, Reactance, Integration Time, VAR Hours	Active power, Apparent power, Reactive power power facto, Phae, Frequency, URMS, UAVG, IRMS, IAVG, UTHD, ITHD, WHM, WHP, WH, AHM, AHP, AH, Energy counter With HVC151 option : UPPeak, UMPeak, IPPeak, IMPeak, PPPeak, PMPeak, Harmonics, Inrush	Active power, Apparent power, Reactive power power facto, Phae, Frequency, URMS, UAVG, IRMS, IAVG, UTHD, ITHD, WHM, WHP, WH, AHM, AHP, AH, Energy counter With HVC151 option : UPPeak, UMPeak, IPPeak, IMPeak, PPPeak, PMPeak, Harmonics, Inrush
Interface	USB, LAN, GPIB, RS232	USB, GPIB or RS232 LAN (optional ≈ 500 €)	USB, LAN, GPIB	USB, LAN,	USB, LAN, GPIB
				HVC151 : 398 €	HVC151 : 398 €
				HVC152 : 398 €	HVC152 : 398 €
				HVC153 : 398 €	HVC153 : 398 €

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