For 55mm Large Conductor Size And Ultimate Safety For 2000A Areas!

BM 197 AC+DC TRMS on DMM

Clamp-

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AUTOE

SELECT RANGE

AZERO

COM

VFD V/Hz, Ghost-Voltage-Buster, True-rms &PC-Comm Interface for Advanced Users!

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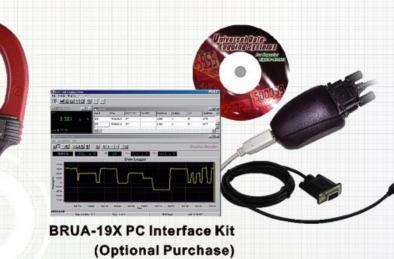
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BM 195 AC/DC Jamp-on DMM





BRIGHT PEOPLE'S CHOICE http://www.brymen.com



BM197

BM195

197	195	FUNCTIONS & FEATURES	
•	•	VFD-V & Hz for fundamental V/Hz of most Variable-Frequency-Drives	
•	•	Fully auto-ranging for ease of use; Fast measurement updates 5/sec	
•	•	Large ACA/DCA Hall-effect jaws up to 55mm conductor size	
•	•	3-5/6 digits, 6,000 counts + 1,999 counts dual display	
•	•	2000A DC & AC Clamp-on + Multimeter ranges	
•	•	1000VAC/DC input protection on all functions	
•	•	Ultimate safety up to CAT IV 1000VAC/DC	
•	•	Dual Display ACA+Hz and ACV+Hz	
•	•	High 0.5% DCV accuracy	
•	•	Soft carrying pouch	
•	•	Auto Power Off	
•	•	Data HOLD	
•	•	Relative Zero mode	
•	•	Non-Contact EF-Detection (NCV)	
•	•	Fast 5ms Crest-MAX mode to capture in-rush currents	
•	٠	Probe-Contact EF-Detection for more precise indication of live	
•	•	AutoCheck [™] feature (Automatic DCV, ACV & Ohms selection)	
•	•	Lo-Z volts to drain ghost voltages (AutoCheck [™] feature)	
•		AC, AC+DC True RMS voltage and current functions	
•		Back-lighted easy-to-read LCD display	
•	-	Type-K temperature -50°C to 1000 °C or -58°F to 1832°F selectable	
•	•	DCV 4 ranges 6.000V to 1000V	
•	•	ACV 4 ranges 6.000V to 1000V	
•	•	DCA 2 ranges 200.0A to 2000A	
•	•	ACA 2 ranges 200.0A to 2000A	
•	•	Ohm 6 ranges 600.0Ω to 40.00MΩ	
	•	Diode test; Fast audible Continuity	
		Line-level ACV Frequency 10Hz to 1999Hz	
	•	Non-invasive ACA Frequency via clamp jaws 20Hz to 400Hz	
	•	Cx 6 ranges 60.00nF to 2000µF for start & run motor capacitors	
	•	Optional purchase USB cable set & software for Win98/2k/xp/Vista/Win7	
	•	Rugged fire retarded casing with battery access door	
•	•	Transient protection 12kV 1.2/50µs lightning surge	
		LVD EN61010-2-032 & EN61010-1 CAT IV 1000V	
		EMC EN61326-1:2006 (EN55022, EN61000-3-2/-3 & EN61000-4-2/-3/-4/-5/-6/-8/-11)	
		EN61000-4-2/-3/-4/-5/-6/-8/-11)	

CAT IV 1kVI 2000A DC+AC TRMSI Dual-Display VFD Convenience Start & Run Motor Cx, In-rush Crest, EF-Detection, 'C/'F and Auto-Check^{III} Features!

FAST AUDIBLE CONTINUITY FOR QUICK OPEN-SHORT TESTS ON SWITCHES, FUSES, AND WIRES

LVD CAT IV 1000V SAFETY MEETS EN61010-2-032, EN61010-1 & UL STANDARDS ON CAT IV 1000V

RESISTANCE 6 AUTO-RANGES UP TO 40MΩ

AC+DC TRUE RMS MEASUREMENTS (BM197 ONLY) FOR NON-SINUSOIDAL & COMPLEX WAVEFORMS OF VOLTAGES & CURRENTS.

ERGONOMIC & STREAMLINE BODY ALSO COMES WITH A SOFT POUCH FOR EASY CARRYING & PROTECTION

VFD V & Hz FEATURE MEASURES FUNDAMENTAL VOLTAGE & FREQUENCY OF MOST VARIABLE FREQUENCY DRIVES

AUTOCHECKTM FEATURE AUTOMATIC SELECTION OF LoZ DCV, LoZ ACV & OHMS

FULLY AUTO-RANGING DMM SHORTENS THE TIME TO MEASURE AND INCREASES THE EASE OF USE

GHOST-VOLTAGE-BUSTER Loz DRAINS GHOST/ STRAY VOLTAGES LEAVING ONLY HARD SIGNALS ON METER READINGS

BACKLIGHTED LCD DISPLAY (BM197 ONLY) FOR EASY VIEWING IN THE DARK

> EMC MEETS EN61326-1:2006 (EN55022, EN61000-3-2/-3 & EN61000-4-2/-3/-4/-5/-6/-8/-11)

> > PC-COMM INTERFACE CAPABILITY

OPTIONAL PURCHASE RS232C+USB CABLES WITH DATA RECORDING PC SOFTWARE FOR WIN98/NT4/2K/XP/VISTA/WIN7

LARGE HALL-EFFECT CLAMP JAWS FOR LARGE CONDUCTORS UP TO 55mm WITH DC & AC 2000A CAPABILITY

RUGGED & DURABLE HIGH-IMPACT FIRE-RETARDED ENCLOSURE WITH BATTERY COMPARTMENT & ACCESS DOOR

> DIODE TEST FOR TESTING DIODES & RECTIFIERS

6 AUTO-RANGES UP TO 2000µF TO MEASURE MOTOR CAPACITORS

TYPE-K TEMPERATURE (BM197 ONLY) SELECTABLE °C AND °F READINGS; COMES WITH BKP60 BEAD PROBE

> AUTO-POWER-OFF EXTENDS BATTERY LIFE

DATA HOLD FREEZES THE DISPLAYING READING FOR LATER VIEW

5ms CREST-MAX CAPTURES IN-RUSH PEAK SIGNALS OF ACA OR ACV AS SHORT AS 5ms IN DURATION

> HIGH CURRENT (ACA) Hz MEASURES NON-INVASIVE ACA FREQUENCY VIA CLAMP JAWS

HIGH VOLTAGE (ACV) HZ MEASURES NOISY HIGH VOLTAGE ACV FREQUENCY VIA TEST LEADS

0.5% DCV BASIC ACCURACY DCV 4 AUTO-RANGES TO 1000V; ACV 4 AUTO-RANGES TO 1000V

EF-DETECTION BOTH NON-CONTACT (NCV) &

SINGLE-PROBE VOLTAGE DETECTION FOR IDENTIFYING LIVE LINES

RELATIVE ZERO MODE FOR CONVENIENT READINGS COMPARISON & OFFSET

INV CATIV 2 ELA BM 197 INV CATIV 2 ELA BM 197 BRYMEN[®] AC+DC TRMS Clamp-on DMM

EA"

Ev

HEV

鄙

°CF

Auto Check True-RIMS OFF PC Comm UFD UFD AUTO(5-7)

GMAXE

RANGE

Max

TRANSIENT PROTECTION

UP TO 12kV 1.2/50µs LIGHTNING SURGE;

MORE CONFIDENCE FOR SERIOUS USERS

SELECT

COM

GENERAL SPECIFICATIONS

Display: 3-5/6 digits 6000 counts. & 3-1/2 digits 1.999 counts for Hz **Polarity:** Automatic Update Rate: 5 per second nominal; Operating Temperature: 0°C to 40°C Relative Humidity: Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 40°C Pollution degree: 2 Storage Temperature: -20°C to 60°C, < 80% R.H. (with battery removed) Altitude: Operating below 2000m Temperature Coefficient: nominal 0.15 x (specified accuracy)/ °C @(0°C -- 18°C or 28°C -- 40°C), or otherwise specified Sensing: Average sensing for BM195; True RMS for **BM197**

Safety: Double insulation per IEC/EN61010-1 2nd Ed., UL61010-1 2nd Ed. & CAN/CSA C22.2 No.

61010.1-0.92 to CAT IV 1000V AC & DC Transient Protection: 12kV (1.2/50μs surge) Overload Protectlons: Clamp-on jaws: 2000A rms continuous '+' & COM Terminals (all other functions): 1000V rms E.M.C.: Meets EN61326-1:2006 (EN55022, EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, , EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11) In an RF field of 3V/m: Capacitance function is not specified Other function ranges: Total Accuracy = Specified Accuracy + 200 digits Performance above 3V/m is not specified Power Supply: 1.5V AA Size (IEC LR6) battery X 2

Power Consumption: Typical 14mA for Current functions, and 5.2mA for others Low Battery: Below approx. 2.4V APO Timing: Idle for 34 minutes APO Consumption: 10µA typical Dimension: L264mm X W97mm X H43mm Weight: 608 gm

Jaw opening & Conductor diameter : 55mm max Accessories: Test leads (pair), user's manual, Bkp60 banana plug K-type thermocouple x 1 (BM197 only)

Optional purchase accessories: USB interface kit BRUA-19X; BKB32 banana plug to type-K socket plug adaptor (BM197 only) Special Features: AutoCheck™ V&Ω; VFD-V &

Special Features: AutoCheck™ V&Ω; VFD-V & VFD-Hz; Backlighted LCD (BM197 only); 5ms CREST-MAX Capture mode (Peak Hold); Auto-ranging Relative-Zero mode; Display Hold; EF-Detection (NCV); Optional Interface capabilities with PC computers

Electrical Specifications

Accuracy is \pm (% reading digits + number of digits) or otherwise specified, at 23°C \pm 5°C & less than 75% relative humidity. True RMS BM197 voltage accuracies are specified from 5 % to 100 % of range or otherwise specified. Maximum Crest Factor < 1.4 : 1 at full scale & < 2.8 : 1 at half scale, and with frequency components within the specified frequency bandwidth for non-sinusoidal waveforms.

DC Voltage

RANGE	Accuracy
6.000V, 60.00V, 600.0V & 1000V	0.5%+5d

AutoCheckTM_ DCV

1.3%+5d

>+1.5VDC & <-1.5VDC nominal

AutoCheckTM Lo-Z DCV Input Impedance: Initially approx. $2.5 k\Omega$, 600 pF nominal; Impedance increases abruptly within a fraction of a second as display voltage is above 50V (typical). Ended up impedances vs display voltages typically are:

10kΩ	@100V
60kΩ	@300V
200kΩ	@600V
420kΩ	@1000V

AC Voltage

RANGE	Accuracy
50Hz ~ 400Hz	e
6.000V, 60.00V, 600.0V & 1000V 1.2%+	
Input Impedance: 10MΩ, 50 pF nomi	nal

AC+DC Voltage (Model 197 Only)

1.4%+7d

AutoChaskill ACM

RANGE	Accuracy 1)
50Hz ~ 60Hz	
6.000V, 60.00V, 600.0V & 1000V	1.5%+5d

> 1.5V(50/60Hz) nominal

AutoCheckTM Lo-Z ACV Input Impedance: Initially approx. $2.5k\Omega$, 600pF nominal; Impedance increases abruptly within a fraction of a second as display voltage is above 50V (typical). Ended up impedances vs display voltages typically are:

10kΩ	@100V
60kΩ	@300V
200kΩ	@600V
420kΩ	@1000V

CREST-MAX Capture Mode

Accuracy: Specified accuracy plus 250 digits for changes > 5ms in duration

Ohm & AutoCheck™ Ohm 1)

RANGE	Accuracy
600.0Ω, 6.000ΚΩ, 60.00ΚΩ	0.5%+5d
600.0KΩ	0.8%+5d
6.000MΩ	1.2%+5d
40.00MΩ	2.3%+5d

Open Circuit Voltage: 0.45VDC typical

1)AutoCheckTM Ohm Threshold:

< 10.00MΩ nominal

Audible Continuity Tester

Audible Threshold: Between 10Ω and 200Ω Response time: 32ms approx.

Capacitance

RANGE	Accuracy 1)
60.00nF, 600.0nF, 6.000µF	2.0%+5d
60.00µF,600.0uF	3.5%+5d2)
2000µF	4.0%+5d2)

1)Accuracies with film capacitor or better

²Temperature Coefficient: 0.25 x (specified

accuracy)/ °C @(0°C -- 18°C or 28°C -- 40°C)

Diode Tester

RANGE	Accuracy
1.000V	1.0% + 3d

Open Circuit Voltage: < 1.8VDC typically

open circuit voltage. < 1.6vDC typically

DCA Current (Clamp on)

RANGE	Accuracy 1) 2)
200.0A	2.0%+5d
0~500A	2.0%+5d
500~2000A	3.0%+5d

Induced error from adjacent current-carrying conductor: <0.1A/A

²Specified with Relative Zero ▲ mode applied to offset the non-zero residual readings, if any

ACA Current (Clamp on)

RANGE	Accuracy 1)
50Hz ~ 60Hz	
200.0A	2.0%+5d
0~500A	2.5%+5d
500~2000A	3.0%+5d
40Hz ~ 50Hz & 60Hz ~	400Hz
200.0A	2.5%+5d
0~500A	3.0%+5d
500~1000A	3.5%+5d
1000~2000A	unspecified

True RMS Crest Factor (BM197 only):

< 1.4 : 1 at full scale & < 2.8: 1 at half scale hinduced error from adjacent current-carrying conductor: < 0.1A/A

DC+ACA Current (Clamp on) (BM197 Only)

Accuracy 1)2
3.0%+8d
3.5%+8d
3.5%+8d
unspecified

< 1.4 : 1 at full scale & < 2.8 : 1 at half scale

Induced error from adjacent current-carrying conductor: < 0.1A/A</p>

²Specified with Relative Zero ▲ mode applied to offset the non-zero residual readings, if any

Temperature (BM197 only)

RANGE	Accuracy
-50 °C ~ 1000 °C	0.3%+4d
-58 °F ~ 1832 °F	0.3%+6d
K-type thermocouple range & a	ccuracy not included



BRYMEN TECHNOLOGY CORPORATION http://www.brymen.com

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