Duc-core Dual Measurements A+V/VFD, HVAC, RST, Amptip & Much More!

Convenient Measurements Of Amps + A DMM Function!

Large Ohms, DCµA & Temperature For HVAC!

Patented AmpTip™ Jaws For Thin Conductors!

Patented 3-Terminal RST For Power & Motors!

EF-Detection (NCV) With Hi/Lo Sensitivities!

+Visible Continuity For Noisy Environments!

Measures VFD V/Hz With Low Pass Filter

Peak-RMS To Capture In-rush Currents!



CE

BM170D Series
Convenient Clamp DMM Duo

2359464

202011052429.9



ERICHT PEOPLES CHOICE http://www.brymen.com



		1000	
176D	175D	173D	Functions & Features
•	•	•	VFD-V & Hz For Fundamental V/Hz Of Most Variable-Frequency-Drives
•	•	•	Fast Measurement Updates 5/Sec
•	•	•	Dual 3-5/6 Digits 6,000 Counts Large LCD Display
•	•	•	Duo-Core To Simultaneously Measure Clamp-On Amps + A DMM Function
•	•	•	30mm Conductor Size Ultra-Slim 600A AC Jaws
•	•	•	AmpTip [™] Low-Current-Range Calibrated At Jaw-Tip For Slim-Conductors
•	•	•	AC True RMS Voltage And Current Functions
•	•	•	Intelligent Auto Power Off
•	•	•	Data HOLD
•	•	•	Fast 80ms PEAK-RMS Mode To Capture In-Rush Currents
•	•	•	Back-Lighted Easy-To-Read LCD Display
•	•	•	Non-Contact EF-Detection (NCV), Selectable Hi/Lo Sensitivities
•	•	•	Probe-Contact EF-Detection For More Precise Indication Of Live
•			
•			© 3Φ-Rotation-M (Hi-Sensitivity Mode) For Motors (Probe-Contact)
•	•		Type-K Temperature -10.0°C To 400°C Or 14.0°F To 752°F Selectable
•	•		DCμA Ranges 200.0μA To 2000μA (Via Leads) For HVAC Flame Sensors
•	•	•	ACA Ranges 60.00A To 600.0A + AmpTip™ ACA 60.00A Range
•	•	•	DCV Range 600.0V
	•		ACV Range 600.0V
•	•	•	Ohm Ranges 600.0Ω To $6000k\Omega$
•	•	•	Cx Ranges 200.0µF To 2500µF For Start & Run Motor Capacitors
•	•	•	Diode Test
•	•	•	Fast Audible+Visible Continuity
•	•	•	Line-Level ACV Frequency 10.00Hz To 999.9Hz
•	•	•	Soft Carrying Pouch
•	•	•	Rugged Fire Retarded Casing With Battery Access Door
•	•	•	Transient Protection 6kV 1.2/50µS Lightning Surge
•	•	•	LVD EN61010-2-032 & EN61010-1 CAT III 600V & CAT IV 300V
•	•	•	EMC EN61326-1:2013
	_		LINO LINO 1320-1.2013

Convenient Duo-core Meter dustomized for

Duo-core A+V, VFD V/Hz, AmpTip™ Jaws, In-rush Peak-RMS, °C/°F, DCμA, Ohms 6000k Ω , Motor RST, +Visible Continuity, Hi/Lo EF-Detection

TYPE-K TEMPERATURE (BM176D & 175D ONLY)

Selectable °C And °F Readings; Comes With Bkp60 Bead Probe

HI/Lo EF-DETECTION

Both Non-Contact (NCV) & Single-Probe Voltage Detection For Identifying Live Lines; Selectable Hi/Lo Sensitivities

LVD CAT III 600V & CAT IV 300V

Certified EN61010-2-032, EN61010-2-033, EN61010-1 & Relevant UL Standards On CAT III 600V & CAT IV 300V

DIODE TEST

For Testing Diodes & Rectifiers

AUDIBLE + VISIBLE CONTINUITY

For Quick Open-short Tests On Switches, Fuses, And Wires; Visible Flashing Icons

AUTO-POWER-OFF

Extends Battery Life

FULLY AUTO-RANGING DMM

Shortens The Time To Measure And Increases The Ease Of Use

VFD V & Hz FEATURE

Measures Fundamental Voltage & Frequency Of Most Variable Frequency Drives

IN-RUSH PEAK-RMS

Captures In-rush Peak RMS Readings At Durations As Short As 80ms

AmpTip™ LOW-CURRENTS

Calibrated To Measure At Jaw Tip For Small-sized Conductors Up To 60 Amps

REGULAR CURRENT

Measures At Jaw Center For Regular Conductors Up To 600 Amps

BACKLIGHTED LCD DISPLAY

For Easy Viewing In The Dark

Meets EN61326-1:2013

AC TRMS 600A Capability DCILA (BM176D & 175D ONLY)

For HVAC Flame Sensors **Testing Via Test Probes**

ACA 30mm AmpTip™ CLAMP JAWS

For Large & Small Conductors With

PHASE ROTATION (BM176D ONLY)

Two Sensitivity RST Modes For **Both Supply Systems And Motors**

CAPACITANCE

2 Auto-ranges Up To 2500µF To Measure Motor Capacitors

6000kQ RESISTANCE

5 Auto-ranges Up To 6000kΩ Best Resolution 0.1Ω At 600Ω Range

ERGONOMIC & STREAMLINE BODY

Also Comes With A Soft Pouch For Easy Carrying & Protection

DUO-CORE MEASUREMENTS

To Conveniently Measure Amps + Volts Or Another DMM Function

DATA HOLD

Freezes The Displaying Reading For Later View

RUGGED & DURABLE

High-impact Fire-retarded **Enclosure With Battery** Compartment & Access Door

1.0% DCV BASIC ACCURACY

DCV Up To 600V; ACV Up To 600V



TRANSIENT PROTECTION

Up To 6kV 1.2/50us Lightning Surge: More Confidence For Serious Users

GENERAL SPECIFICATIONS

Display: 3-5/6 digits 6000 counts; dual display

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: True RMS

Safety: Double insulation per UL/IEC/EN61010-1 Ed. 3.0, CAN/CSA C22.2 No. 61010-1 Ed. 3.0,

UL/IEC/EN61010-2-032 Ed. 3.0,

UL/IEC/EN61010-2-033 Ed. 1.0 to CAT III 600V

and CAT IV 300V AC & DC

Transient Protection: 6.0kV (1.2/50µs surge)

Overload Protections:

Clamp-on jaws: 600A rms continuous "+" & COM Terminals (all other functions): 600VDC/VAC rms

E.M.C.: Meets EN61326-1:2013

Temperature function at 80MHz ~ 150MHz:

In an RF field of 1V/m:

Total Accuracy = Specified Accuracy + 25 digits Other functions:

In an RF field of 3V/m:

Total Accuracy = Specified Accuracy + 20 digits

Power Supply: 1.5V AAA Size battery X 2 Power Consumption: 6.2mA typical

Low Battery Indication:

Below approx. 2.85V for Capacitance & Hz Below approx. 2.5V for other functions APO Timing: Idle for 32 minutes approx. APO Consumption: 5µA typical Dimension (LxWxH): 217 x 76 x 37mm

Weight: 186gm

Jaw opening & Conductor diameter:

30mm max

Accessories: Test lead set, User's manual, Soft carrying pouch, Bkp60 banana plug K-type thermocouple (BM175D & BM176D only), Alligator Clip set (BM176D only)

Optional purchase accessories: BKB32 banana plug to type-K socket plug adaptor (BM175D &

BM176D only)

Special Features: AmpTip™ low-current range; Display Hold; EF-Detection (NCV); Backlighted LCD; 80ms Peak-RMS mode for inrush current; 3-Phase Rotation detection (BM176D only)

Electrical Specifications

Accuracy is \pm (% reading digits + number of digits) or otherwise specified, at 23°C \pm 5°C.

Maximum Crest Factor < 2.5: 1 at full scale & < 5: 1 at half scale or otherwise specified, and with frequency components within the specified frequency bandwidth for non-sinusoidal waveforms.

DC Voltage

RANGE	Accuracy
600.0V	1.0% + 5d

Input Impedance: 10MΩ, 100 pF nominal

AC Voltage (with Digital Low Pass Filter)

RANGE	Accuracy
50Hz ~ 60Hz	
600.0V	1.0% + 5d

Input Impedance: 10MΩ, 100 pF nominal

Hz Line Level Frequency

Function	Sensitivity 1) (Sine RMS)	Range
600V	50V	5.00Hz ~ 999.9Hz

Accuracy: 1%+5d

Audible Continuity Tester

Audible Threshold: Between 10Ω and 250Ω Response time: 32ms approx.

Ohm

RANGE	Accuracy
600.0Ω, 6.000 KΩ, 60.00 KΩ	1.0% + 5d
600.0KΩ 1), 6000KΩ 2)	1.2% + 5d

Open Circuit Voltage: 1.7VDC typical ¹/Test Current: 2µA typical ²/Test Current: 0.2µA typical

Capacitance

RANGE	Accuracy 1)
200.0μF, 2500μF	2.0% + 4d

1)Accuracies with film capacitor or better

Diode Tester

RANGE	Accuracy
3.000V	1.5% + 5d

Test Current: 0.3mA typical

Open Circuit Voltage: < 3.5VDC typical

DCµA (BM175D & BM176D only)

RANGE	Accuracy	Burden Voltage
200.0μΑ, 2000μΑ	1.0% + 5d	3.5mV/µA

Temperature (BM175D & BM176D only)

RANGE	Accuracy
-40.0 °C ~ 99.9 °C	1.0% + 0.8°C
100 °C ~ 400 °C	1.0% + 1℃
-40.0 °F ~ 99.9 °F	1.0% + 1.5°F
100 °F ~752 °F	1.0% + 2°F

K-type thermocouple range & accuracy not included

AmpTip™ Clamp-on ACA

RANGE	Accuracy 1) 2) 3) 4)		
50Hz ~ 60Hz			
60.00A	1.5% + 5d		

1)Induced error from adjacent current-carrying conductor: <0.06A/A

²Induced error from ACV measurement < 0.60A /kV @50/60Hz

3)Add 10d to the specified accuracy @ < 6A 4)Unspecified @ < 0.2A while Rotary-switch function is Continuity or Non-Contact EF-Detection

Regular Clamp-on ACA

RANGE	Accuracy 1) 2) 3) 4)	
50Hz ~ 100Hz	- A	
60.00A 5, 600.0A	1.8% + 5d	
100Hz ~ 400Hz	-	
60.00A 5, 600.0A	2.0% + 5d	

1)Induced error from adjacent current-carrying conductor: <0.06A/A

A Induced error from ACV measurement < 0.60A /kV @50/60Hz

³⁾Specified accuracy is for measurements made at the jaw center. When the conductor is not positioned at the jaw center, add 2% to specified accuracy for position errors

4)Unspecified @ < 0.2A while Rotary-switch function is Continuity or Non-Contact EF-Detection

5) Add 10d to specified accuracy @ < 6A

80ms PEAK-RMS for Clamp-on ACA functions

Response: 80ms to > 90%

Accuracy: share clamp-on ACA function specifications except unspecified for < 2% of rance

Non-Contact EF-Detection

Bar-Graph Indication	EF-H (High Sensitivity)	EF-L (Low Sensitivity)	
	Typical Voltage (Tolerance)		
•	10V (5V ~ 25V)	40V (32V ~ 70V)	
	25V (20V ~ 66V)	110V (55V ~ 165V)	
	55V (50V ~ 125V)	220V (130V ~ 265V)	
	110V (90V ~200V)	400V (250V ~ 500V)	
	220V (>180V)	550V (>430V)	

Indication: Bar-graph segments & audible beep tones proportional to the field strength

Detection Frequency: 50/60Hz

Detection Antenna: Top side of the stationary jaw Probe-Contact EF-Detection: For more precise indication of live wires, such as distinguishing between live and ground connections, use direct contact testing with one single test-probe via an input terminal. The COM terminal (Black) has the best sensitivity.



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¹⁾DC-bias, if any, not more than 50% of Sine RMS

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