European Form-Factor Voltage Testers!

Proprietary Features At Affordable Prices By ASIC Technology!



Electrical Testers

http://www.brymen.com



69	66	FUNCTIONS & FEATURES		
•	•	Handy & Stylish		
•	•	19mm Probe Pitch For Quick European Receptacle Testing		
•	•	2mm Test Tips With 4mm Screw-On Tip Accessories		
•	•	User Replaceable Screw-On Stationary (Red) Probe Body		
•	•	Standard Detachable (Black) Test Lead For Easy Replacement		
•	•	Automatic Power On & Power Off		
•	•	Indicator Self-Test Feature		
•	•	Automatic DCV, ACV & Continuity Selection		
•	•	Auto-Hold Feature (LEDs Flash For Approx. 10 More Seconds)		
•	•	Non-Contact EF-Detection (NCV)		
•	•	Probe-Contact EF-Detection For More Precise Indication Of Live		
•	•	Overload-Alert Warning (1000V LED Flashes When > 1000VAC/DC)		
•	•	9 DCV LED Indication Ranges From 6V, 12V, To 1000V		
•	•	8 ACV LED Indication Ranges From 12V, 24V, To 1000V		
•		LCD Digital Display For More Precise Indication Of Voltage Level		
•		Auto Display Backlit For Easy Viewing In The Dark		
•		AC-Detection Shaker		
•		Bi-Color LED Hazardous Live Warning (At > 70VDC / 33VAC)		
•		RCD Leakage Load for 230VAC/30mA RCD Circuit Breakers		
•	•	Continuity: Audible Beeper & Visible LED Indications		
•	•	Powered By Internal Batteries For Least System Current Drain		
•	•	Low Battery Warning		
•	•	Battery Access Door		
•	•	Rugged Fire Retarded Double Injected Casing		
•	•	Water And Dust Resistance; IP65 Per EN60529		
•	•	Transient Protection 8kV 1.2/50µs Lightning Surge		
•	•	LVD EN61243 & EN61010 CAT III 1000V & CAT IV 600V		
•	•	EMC EN61326(97/98A1)/EN61000-4-2(95)/EN61000-4-3(96)		

Powerful, Ergonomic & Safe To Use! User Replaceable Test Probes for long-lesting Service!

Output and the Control of the Contro

120

DETACHABLE (BLACK) TEST LEAD

STANDARD 4mm PLUG DESIGN FOR FASY LISER REPLACEMENT

SCREW-ON STATIONARY (RED) PROBE BODY SCREWON DESIGN FOR EASY USER REPLACEMENT

INTELLIGENT AUTO ON & OFF

AUTOMATIC POWER ON & POWER OFF TO EXTEND BATTERY LIFE

AUTOMATIC DCV. ACV & CONTINUITY SELECTION SHORTENS THE TIME TO TEST AND INCREASES THE FASE OF USE

AC-DETECTION SHAKER-THE SHAKER SIGNALS THAT SIGNIFICANT ACV IS BEING MEASURED

LEAKAGE LOAD FOR RCD INTERNAL LEAKAGE LOAD PROVIDED TYPICAL LEAKAGE CURRENT 30mA AT 230V (USA GECL VERSION ALSO AVAILABLE)

UP TO 1kV VOLTAGE TESTING IMPROVED TESTING CAPABILITIES

OVERLOAD-ALERT WARNING WHEN INPUT > 1000V AC OR DC. THE 1000V LED FLASHES

BI-COLOR LED HAZARDOUS LIVE WARNI

WHEN INPUT > 70 VDC/33 VAC. THE GREEN VOLTAGE LEDS TURN RED

AUTO-HOLD

LEDS FLASH FOR APPROX. 10 MORE SECONDS AFTER SIGNAL IS REMOVED

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

19mm PROBE PITCH FOR EUROPEAN RECEPTACLE TESTING

> 2mm / 4mm TEST TIPS SELECTABLE 2mm TIP Hi-SAFETY TEST PROBES WITH SCREWLON 4mm TIP ACCESSORIES

ALITO RACKLIT DIGITAL DISPLAY FOR MORE PRECISE INDICATION

& EASY VIEWING IN THE DARK RUGGED & DURABLE

HIGH-IMPACT FIRE-RETARDED ENCLOSURE FOR REINFORCED SAFETY & DURABILITY

> MEETS EN61326(1997, 1998(A1). EN61000-4-2(1995), & EN61000-4-3(1996)

> > DOUBLE INJECTION HOUSING SEAMLESS OVER-MOLDED PUSH-RUTTON SWITCHES AND LED / LCD DISPLAY WINDOWS FOR HARSH ENVIRONMENTS

ERGONOMIC STREAMLINE DESIGN FITS COMFORTABLY IN ONE'S HAND

INDICATOR SELF-TEST FEATURE ILLUMINATES THE LEDS FOR FULL INDICATION CHECK

> NAMBIGUOUS AC INDICATION INDIVIDUAL LED IS USED FOR AC INDICATION

EF-DETECTION BOTH NON-CONTACT & SINGLE-PROBE VOLTAGE DETECTION FOR IDENTIFYING LIVE LINES

TRANSIENT PROTECTION UP TO 8kV 1.2/50µs LIGHTNING SURGE; SUPERB PROTECTION FOR SERIOUS LISERS

LVD CAT III & CAT IV SAFETY MEETS EN61243 VOLTAGE CLASS B. EN61010-1 AND IEC61010-1 2ND EDITION TO CAT III 1000V & CAT IV 600V

BT-66 & BT-69 GENERAL SPECIFICATIONS

LCD Display: 3 digits 1000 counts (BT-69 only)

Undate Rate: 5 per second nominal Operation Temperature: -10°C ~ 55°C

Relative Humidity: Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative

humidity at 55°C Altitude: Operating below 2000m

Storage Temperature: -20°C ~ 60°C. < 80% R.H. (with battery

Temperature Coefficient: Nominal 0.15 x (specified accuracy)/ °C @ (-10°C ~ 18°C or 28°C ~ 55°C), or otherwise specified Sensing: Average sensing

Type of Protection: IP65 (Approval Pending) Pollution Degree: 2

E.M.C.: Meets EN61326 (1997, 1998/A1), EN61000-4-2 (1995). & EN61000-4-3 (1996):

For both models: Performance is specified in an RF Field of 3V/m. Performance above 3V/m is not specified.

For RT-69 LCD display only: In an RF Field of 3V/m, total accuracy = Specified accuracy + 45d. Performance above 3V/m is not specified Safety: Meets EN61243 voltage class B. EN61010-1 and

Measurement Category: CAT III 1000V & CAT IV 600V AC & DC Transient Protection: 8kV lightning surge (1.2/50us)

Overload Protection: 1000VDC & VAC rms

Low Battery: Below approx 2 4V: Below approx 2 6V for BT-69 with chaker ON Power Supply: Standard 1.5V AAA Size (NEDA 24G or IEC R03)

battery X 2: or 1.5V AAA Size (NEDA 24A or IEC LR03) alkaline hattery X 2

Power Consumption (typical): 3mA at Power-on ready: 30mA at 1000VAC full LED indication, 75mA at 1000VAC with shaker ON (RT-69 only)

APO Consumption (typical): 10uA APO Timing: Idle for 30 seconds

Dimension: L233mm x W57mm x H40mm Weight: Approx. 220 am

Special Features: High Input Impedance, Indicator Self-Test. Auto-Hold, Overload-Alert Warning, EF-Detection, Auto Display Backlit (BT-69 only), AC-Detection Shaker (BT-69 only), Bi-Color LED Hazardous Live Warning (BT-69 only), and RCD Leakage Load (RT-69 only)

Accessories: Detachable (Black) Test Lead. Screw-on Stationary (Bed) Probe 2 Screw-on 4mm Tip Accessories, batteries installed and User's manual

BT-66 & BT-69 Electrical Specification

IEC61010-1 2nd Edition (2001)

Accuracy is given as +/- (% of reading digits + number of digits) or otherwise specified @ 23 °C +/- 5 °C and less than 75% R.H.

DC & AC Voltage (LED)				
DCV MARKING	ACV MARKING	Typical Threshold		
6V		4.8V		
12V	12V	9.6V		
24V	24V	19.2V		
50V	50V	40V		
120V	120V	96V		
230V	230V	184V		
400V	400V	320V		
690V	690V	552V		
1000V	1000V	800V		

LED Threshold: < 85% of Voltage marking. Typical @ 80%

Input Impedance: 460kO, 160pF nominal ACV Frequency Response: 45Hz ~ 65Hz Duty ratio: Continuous duty

Audible Continuity

Open Circuit Voltage: 0.4VDC typical Audible Threshold: between 50kΩ and 2000kΩ

DC & AC Voltage (BT-69 LCD only)

RANGE	Typical Threshold	Accuracy		
DC 999V	> +4.5VDC or < -4.5VDC	1.0%+2d		
AC 999V (50Hz/60Hz)	> 8VAC	2.5%+4d		
Input Impedance: 460kΩ, 160pF nominal				

Duty ratio: Continuous duty

AC Detection Shaker Threshold (BT-69 only) Shaker ON: > 15VAC nominal Shaker OFF: < 8VAC nominal

RCD Leakage Load (BT-69 only)

Load Current: 30 mA typical at 230V Path Impedance: 7.7 kΩ nominal, PTC protected RCD Leakage Load feature is for 230V nominal circuits only. It is disabled above 270V and below 120V

Non-Contact EF-Detection

Indication: EF LED flashing & audible beep tones proportional to the field strength

Detection Frequency: 50/60Hz Detection Antenna: Top end of the meter

Probe-Contact EF-Detection: For more precise indication of live wires, such as distinguishing between live and ground

connections, use the Red (+) test probe for direct contact measurements

BT-69 also displays Bar graph segments proportional to the field strength on LCD. Typical values are shown in the following table

Range	(BT-69 only)
15V to 55V	
30V to 95V	
55V to 170V	
Above 120V	••••



BRYMEN	TECHNOLOGY	CORPORATION
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