1kV Insulation + Hi-Performance MM with 10A Input

- Insulation with 5 Selectable Test Voltages! Reading Smooth model Test-Inhibit & Lock+Test Featurel
- AC+Hz Dual Display! VFD V & Hz! Convenient Remote Probe! Records Min/Max Readings! Relative Zero! BeepJack^{IIII} Input Warning!





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887	885	FUNCTIONS & FEATURES
•	•	3-5/6 Digits 6,000 Counts Large Easy-To-Read LCD Display
•	•	Nominal 5/Sec Fast Measurements; Fully Auto-Ranging
	•	61 Segment Analog Bar-graph Updates 60/Sec
	•	Paper-White Back-Lighted LCD Display
•	•	Dual Digital Display AC + Hz Readings
	•	AC True RMS Conversion
•	•	Intelligent Auto Power Off
	•	Data Hold
•	•	Relative Zero Mode
•	•	Records Standard Measurement Max/Min Readings
۲	•	BeepJack™ Input Warning Against Improper Plug In To μAmA/A Terminals
	•	VFD-V & VFD-Hz Measures Fundamental V & Hz Of Most Variable Frequency Drives
•	•	AC/DC Voltage Ranges 60.00mV To 1000V
•	5kHz	ACV Bandwidth Up To 20kHz
	•	Ohms Ranges 60.00 Ω To 60.00M Ω
•	•	Fast Audible Continuity Tester
•	•	Diode Tester
•	•	Frequency Ranges 9.999Hz To 100.0kHz
•	•	AC/DC μA, mA & A Ranges 600.0μA To 10.00A
		Capacitance Ranges 2.000µF To 20.00mF
•		Type-K Temperature -40.0°C To 537.0°C; Selectable °F Readings
•	•	Insulation Resistance; Selectable Test Voltage Of 50V, 100V, 250V, 500V & 1000V
•	•	Shows Insulation Results & Actual Test Voltages In Dual Display
•	•	Insulation TEST Activation Inhibits When Live Circuit Is Detected
•	•	Lock-Test Mode For Continuous Insulation Resistance Measurements
•	•	Smooth Mode To Smooth Out Insulation Result Readings
•	•	Convenient Remote Probe (For Insulation Resistance Test)
•	•	Optional Purchase Magnetic Hanger
•	•	Rugged Fire Retarded Casing With Battery/Fuse Access Door
	•	Replaceable Protective Holster With Probe-Holders & Tilt-Stand
	•	HBC 1kV Fuses Protected On µAmA/A Terminals
•	•	Transient Protection Up To 8kV 1.2/50µs Lightning Surge
•	•	LVD Meets EN61010-1/-2-030/-2-033 to Measurement CAT III 1000V & CAT IV 600V
	•	LVD Also Meets EN61557-1/-2 (Insulation Resistance)
•	•	EMC EN61326-1:2013

167 Insulation + 2014112 True AMS AGY + 10A Input

20kHzBandwidth! 10A Input! 60.00mV & 60.00Q Ranges! VFD V & Hz Dual Display! 5Insulation Test Voltages! Smooth mode! Test+Inhibit & Lock-Test Feature! Remote Probe! Min/Max Readings! Relative Zero! Beeplack²⁰ Warning!

Analog Bar-graph Fast Update Rate 60/sec

Auto & Manual-ranging Auto-ranging With Manual-ranging Override

Smooth Mode Smooth Out Unstable Insulation **Resistance** Readings

Function Selection Toggle Conveniently Between Primary & Secondary Functions

Paper-white Display Backlight For Easy Viewing In The Dark

60.00mV AC/DC Ranges 0.01mV High Resolution To **Test Small Signal Changes**

Diode Test For Checking Diodes And Rectifiers

Fast Audible Continuity For Quick Open-short Tests On Switches, Fuses And Wires

High Impedance Voltage 1000VAC/DC Measuring Capabilities: High Input Impedance For Load Sensitive Circuits

Hz Of Line Level Voltage Measures Noisy High Voltage ACV Frequencies In Dual Display

VFD V & Hz Feature Measures Fundamental Voltage & Frequency Of Most Variable Frequency Drives In Dual Display

Beep-jackTH Audible & Visible Warning Guards Against Improper "- INS. µAmA" & "A" Terminals Plug In. Decreases **Risks Of Damage**

> **Accepts Remote Probe** Convenient Activation For Insulation **Resistance Tests, Full Silicone** Leads To Minimize Insulation Test Error

> > Intelligent Auto-power-off To Extend Battery Life; Awake Resets On Significant Operation & Measurements

6,000 Counts Wide-view LCD Display 5/sec Fast Nominal Update Rate

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MAX 000V CAT II 600V CAT II

MAX 10A HBC FUSED

BM887 True RMS Insulatio

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Dual Digital Display Simultaneously View Relevant Parameters In Complementary Display

OCKE

INSULATION

20kHz AC

Bandwidth

Q V

⊕ INS

Asic Technology Allows More Functions & Features At Affordable Prices

Ergonomic Streamline Design Fits Comfortably In One's Hand

Relative Zero Mode For Convenient Readings **Comparison And Offset**

LOCK Feature For Two Handed Continuous Testing Without The Need To Press The TEST Button

> **Data Hold** Freezes The Displaying **Reading For Later View**

> > Max Min Record Record Measurement Max & Min Readings

mA & Hz Measures Currents & Frequencies In Dual Display

Insulation Resistance Test 5 Test Voltages: 50V, 100V, 250V, 500V & 1000V. It is Useful For Determining The State Of Insulation Material.

Type-k Temperature Measurements -40.0°C To 537.0°C, Selectable °C & °F Readings

Capacitance Autoranging 2.000µF To 20.00mF

Resistance Function 0.01Ω High Resolution, Autoranging 60.00Ω To 60.00MΩ

Transient Protection Up To 8kV 1.2/50µs Lightning Surge; Superb Protection For Serious Users

FNC

Meets EN61326-1:2013

KHI.

LVD Safety Meets EN61557-1/-2, & EN61010-1/-2-030/-2-033 CAT III 1kV & CAT IV 600V

ACV True RMS 20kHz Bandwidt For Non-sinusoidal Waveforms Of Complex Voltage Or Current Signals

Protective Hoister With Holders For Probe Storage And "third Hand" Feature, **Replaceable & Washable**

GENERAL SPECIFICATION

Display: 3-5/6 digits 6,000 counts Polarity: Automatic Update Rate: 5 per second nominal 61 Segments Bar graph: 40 per second max Operating Temperature: -10°C to 50°C Relative Humidity: Maximum relative humidity 90% for temperature up to 28°C decreasing linearly to 50% relative humidity at 50°C

Pollution Degree: 2

IP Rating: IP40 Storage Temperature: -20°C to 60°C, < 80% R.H. (with battery

removed) Altitude: Operating below 2000m

Temperature Coefficient: nominal 0.1 x (specified accuracy)/ °C @(-10°C ~ 18°C or 28°C ~ 50°C), or otherwise specified Sensing: AC, True RMS Safety: Double insulation per IEC/UL/EN61010-1 Ed. 3.0, IEC/UL/EN61010-2-030 Ed. 1.0, IEC/UL/EN61010-2-033 Ed. 1.0, IEC/UL/EN61010-031 Ed. 1.1 and the corresponding CAN/CSA-C22.2 regulations to Measurement CAT III 1000 V AC &

Electrical St

DC and Category IV 600V AC & DC

Accuracy is ±(% reading digits + number of digits) or otherwise specified, at 23°C ± 5°C & less than 80% relative humidity. True RMS voltage & current accuracies are specified from 1 % to 100 % of range or otherwise specified. Maximum Crest Factor < 1.8:1 at full scale & < 3.6:1 at half scale, and with frequency components fail within the specified frequency bandwidth for non-sinusoidal waveforms.

AC Voltona

RANGE	Accuracy	
	BM887	BM885
50Hz ~	60Hz	
60.00mV, 600.0mV, 6.000V, 60.00V, 600.0V, 1000V	0.7% + 4d	0.7% + 4d
40Hz ~	1kHz	
60.00mV, 600.0mV, 6.000V, 60.00V, 600.0V	1.3% + 4d	1.3% + 4d
1000V	2% + 4d	2% + 4d
1kHz ~	5kHz	
60.00mV, 600.0mV, 6.000V, 60.00V, 600.0V	2% + 4d 1)	3% + 5d
1000V	Unspecified	
5kHz ~ 2	0kHz ²⁾	
60.00mV	Unspecified	
600.0mV, 6.000V, 60.00V	2% + 20d Unspecifi	
600.0V, 1000V	Unspecified	

1Add 20d @ >80% of range

2)Unspecified @ <5% of range

VFD AC Voltage

RANGE	Accuracy ¹	
	10Hz ~ 45Hz	
600.0V	4.0% + 5d	
· · · · · · · · · · · · · · · · · · ·	45Hz ~ 200Hz	
600.0V	2.5% + 5d	
	200Hz ~ 440Hz	
600.0V	9.0% + 5d ²⁾	

Input impedance: 10MQ, 110pF nominal

0Unspecified for fundamental frequency > 440Hz ²⁾Accuracy linearly decreases from 2.5% + 5d @200Hz to 9.0% +

5d @440Hz

RANGE	Accuracy	
	BM887	BM885
60.00mV	0.2% + 3d	0.3% + 30
600.0mV, 6.000V, 60.00V	0.1% + 2d	0.2% + 20
60.00mV, 600.0V, 1000V	0.2% + 3d	0.3% + 30

RANGE ¹⁾	Accuracy		
	BM887	BM885	
60.00Ω ²	0.5% + 5d	0.6% + 5d	
600.0Ω	0.2% + 3d	0.3% + 3d	
6.000kΩ, 60.00kΩ	0.2% + 2d	0.3% + 2d	
600.0kΩ	0.3% + 2d	0.4% + 2d	
6.000MΩ 30	1% + 3d	1.5% + 3d	
60.00MΩ 4)	1.5% + 60 00	2% + 60 50	

1)Open Circuit Voltage: 1.7VDC typical

²Specified assumes input lead resistance been offset by REL ▲ or Shrt (short) feature

³⁾Constant Test Current: 0.2µA Typical

Onstant Test Current: 0.02µA Typical

NAdd 1% @ >20MΩ
 Add 2% @ operation temperature >35°C

Audible Continuity Tester Audible threshold: between 20Ω and 350Ω Response time: < 30ms

Compliance to IEC/EN61557:2007 (Per CE requirements, not certified by UL or ETL): IEC/EN61557-1 & IEC/EN61557-2 **Overload Protections:** Insulation Resistance, µA & mA: 0.4A/1KV, IR 30kA, F Fuse; or bette A: 11A/1KV, IR 20kA, F Fuse; or better V: 1100Vms mV, Ω & Others: 1000 Vrms Transient Protection: 8kV (1.2/50µs surge) E.M.C.: Meets EN61326-1:2013 In an RF field of 3V/m: Total Accuracy = Specified Accuracy + 25 digits Performance above 3V/m is not specified Power Supply: Four Alkaline AA betteries (IEC LR8) Power Consumption: 6.5mA typical except the followings: VFD ACV **: 8mA Insulation Resistance @1mA test current: 50V output voltage: 25mA 100V output voltage: 45mA 250V output voltage: 85mA 500V output voltage: 170mA

1000V output voltage: 440mA

Tester can perform at least 950 insulation tests with new alkaline batteries at room temperature. These are standa tests of 1000 V into 1 MO with a duty cycle of 5 seconds on and 25 seconds off.

- Low Battery: approx. 4.6V APO Timing: Idle for 20 minutes

APO Consumption: 20µA typical Dimension: L208mm X W103mm X H64.5mm with hoister Weight: 635 am with hoister

Accessories: Test probe pair, Alligator clip pair, BRP21S2-C Remote probe, Holster, User's manual, Bkp60 banana plug type-K

Remote protect rolean, over the moccouple (Model 887 only) Optional Accessories: BKB32 benana plug to type-K socket plug adaptor (Model 887 only), BMH-01 magnetic hanger; BMP-88x soft

carrying pouch Special Features: Record MAX/MIN regular readings; Relative Zero; Display Hold; LCD Backlight; VFD V & Hz readings; Dual display +Hz Readings; High resolution 60.00mV & 60.00Ω ranges, Lock-Test mode for insulation resistance; BeepJack™ audible & visible input warning

ter		
Accuracy	Test Current (Typical)	Open Circuit Voltage
1.5% + 4d	0.4mA	< 2.8 VDC
	Accuracy	Accuracy Test Current

RANGE	Accuracy ¹⁾
2.000 µF ⁴ , 20.00 µF, 200.0 µF, 2000 µF	1.5% + 5d
20.00mF	5% + 5d

²⁾Specified from 0.200µF

DC current

RANGE	Acci	Burden Voltage	
	BM887	BM885	
(* Au(0.008	0.2% + 4d	0.4% + 4d	0.2mV/µA
6000µA1)	0.2% + 2d	0.4% + 2d	0.2mV/µA
60.00mA ¹⁾	0.2% + 4d	0.4% + 4d	3mV/mA
600.0mA 1) 2)	0.3% + 3d	0.5% + 3d	3mV/mA
6.000A	0.5% + 4d	0.8% + 4d	30mV/A
10.00A®	0.7% + 2d	0.8% + 2d	30mV/A

¹⁾µA/mA DC accuracies will be affected by extreme interior temperatures of the meter. For rated accuracies, allow 6 to 20 minutes cool down interval after measuring A-currents of 3 to 10A continuously.

2/s400mA continuous; >400mA for <1.1 hours on per >20 minutes

310A continuous up to embient 35°C; <15 mins on per >5 mins off @ 35°C ~ 50°C. >10A to 20A for <30 seconds on per >5 mins off

AC currant

RANGE	Accuracy		Burden Voltage
	BM887	BM885	
	50Hz ~ 60H	łz	
600.0µA, 6000µA	00mA, 600.0mA ¹⁾ 1% + 3d		0.2mV/µA
60.00mA, 600.0mA 1)			3mV/mA
6.000A, 10.00A2			30mV/A
	40Hz ~ 3kł	-tz	
600.0µA, 6000µA		8	0.2mV/µA
60.00mA, 600.0mA 1)	2% + 3d		3mV/mA
6.000A, 10.00A 2			30mV/A
10 AN	3kHz~5kH	łz	
600.0µA, 6000µA	2% + 5d	Unspecifie	0.2mV/µA
60.00mA, 600.0mA 1)	276 + 50		3mV/mA
6.000A, 10.00A ²⁰	Unspecifie d	d	30mV/A

1) ≤400mA continuous; >400mA for <1.1 hours on per >20 minutes 2/10A continuous up to ambient 35°C; <15 mins on per >5 mins off

@ 35ºC ~ 50ºC. >10A to 20A for <30 seconds on per >5 mins off

Temperature (BM887 only)

RANGE	Accuracy 1) 2)
-40.0°C ~ 0.0°C	1% + 2°C
0.0°C ~ 50.0°C	2.2°C
50.0°C ~ 537.0°C	1% + 2°C
-40.0°F ~ 32.0°F	1% + 3.6°F
32.0°F ~ 122.0°F	4°F
122.0°F ~ 999.0°F	1% + 3.6°F

Accuracies assume meter interior has the same temperature of

the ambient (isothermal stage) for a correct junction voltage compensation. Allow enough time to reach the isothermal stage for a significant change of ambient temperature. It can take up to an hour for changes > 5°C.

²⁷Type-K thermocouple range & accuracy not included

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Function RANGE	Sensitivity (Sine RMS)	Range	
60mV	4mV	6Hz~50kHz	
600mV	40mV	10Hz ~ 100kHz	
6V	6V 0.4V		
60V	4V	10Hz ~ 50kHz	
600V	40V	10Hz ~ 30kHz	
1000V	400V	10Hz ~ 5kHz	
VFD 600V	40V	10Hz~440Hz	
600µA 40µA			
6000µA	400µA	10Hz ~ 5kHz	
60mA	4mA	IUTIZ ~ OKTZ	
600mA	40mA		
6A 0.6A			
10A	6A	10Hz ~ 3kHz	

Record mode

This mode records standard measurement Max and Min readings on most functions, Manual or Auto-ranging where available. Nominal response and accuracy: Same as standard measurements

Insulation Resistance

Test Voltage 1)	Range	Test Current	Accuracy
50V	3.000MΩ, 30.00MΩ, 55.0MΩ	1mA @50kΩ	
100V	3.000MΩ, 30.00MΩ, 110.0MΩ	1mA @100k12	
250V	3.000MΩ, 30.00MΩ, 275.0MΩ		
500V	3.000MΩ, 30.00MΩ, 300.0MΩ, 550.0MΩ	1mA @500kΩ	
100001	3.000MQ, 30.00MQ, 300.0MQ	4-14-0-044-0	1.5%+5d
1000V	3000MΩ	1mA @1MΩ	2.0%+5d
	25.0GΩ		10%+5d

1Actual output voltage: 100% ~ 120% of Test Voltage

Live Circuit Detector: inhibit test and display voltage reading instead if terminal voltage > 30V prior to initialization of test. Display voltage accuracies: DCV: 1.5% + 5d

ACV: 3.0% + 5d @50Hz ~ 60Hz Specified measuring range is $0.020M\Omega \dots 25.0G\Omega$ for percentage operating uncertainty B[%] $\leq \pm 30\%$ per IEC/EN61557-2

requirements

BRYMEN

BRYMEN TECHNOLOGY CORPORATION http://www.brymen.com TEL: +886 2 2226 3396 (rep) FAX: +866 2 2225 0025 Copyright @ MMXV B.T.C. All rights reserved Specifications subject to change without notice Patents pending. Printed in Talwan

Capacitance (BM887 only)

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