BEHA·AMPROBE ®

2100 Series
Two Pole Voltage Tester

2100-Alpha, 2100-Beta

The Beha-Amprobe 2100-Alpha and 2100-Beta are rugged, easy-to-use two pole voltage testers for voltage and continuity checks. Built tough for use in industrial and commercial environments, the 2100 Series measures voltage range up to 690 V AC/DC and is safety rated to CAT IV 600 V / CAT III 690 V. They are also built according to latest voltage tester standard EN 61243-3:2010 and are GS approved.

Both offer voltage test by LED, phase rotation test, switchable load by two push buttons, single pole phase test and continuity. The 2100 series also offers a torch function for working in dark environments and has an ingress protection rating of IP 64. The voltage tester 2100-Beta offers dual display for voltage test with an LED and LCD display.

2100-Alpha

2100-Beta

- Switchable load of 140 W with two push buttons
- Voltage Test
  - Display by LEDs 12…690 V AC/DC
  - Display by LCD 12…690 V AC/DC
    (2100-Beta only)
- Continuity test with visual (LED) and radio indication
- GS approved, built according to EN 61234-3:2010
- Robust, double isolated cable with wear indication
- 4 mm Φ probe extensions for easy, ergonomic measurement in sockets
- Automatic AC/DC voltage detection, indication of polarity

- Audible indication when detected voltages above 50 V AC and 120 V DC
- Two pole phase rotation indication
- Test of 30 mA RCD by push buttons
- Single pole test for phase polarity
- Work light for dark environment
- IP 64 splash and dust proof
- Protective probe caps for reducing the risk of injury
- Quick single hand test on mains socket with 19mm contact distance
- Safety rated CAT IV 600 V, CAT III 690 V

2100 SERIES SPECIFICATIONS

Feature	2100-Alpha / 2100-Beta
Voltage test (AC/DC)	12, 24, 50, 120, 230, 400, 690 V
Frequency	16 2/3 Hz to 70 Hz
Continuity	0 Ω to 500 kΩ
Phase rotation indication	330 V to 450 V AC (47 Hz to 63 Hz)
Single pole phase test	100 V to 690 V AC (40 Hz to 70 Hz)
Switchable load	140 W at 690 V
Voltage detection	Automatic
Polarity detection	Full range
RDC trip (30 mA)	Yes
Work light	Yes
Accessories	Users manual, GS 38 caps, batteries (installed), carrying case sold separately (CC-VP-7XX 3889931)

For more detailed specifications see users manual.

For detailed specifications and ordering info go to **www.beha-amprobe.com** 6002202 A

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2100 SERIES DETAILED SPECIFICATIONS

Specifications	2100-Alpha	2100-Beta
Display	LED	LED and LCD
LED voltage range	12 V...690 V AC/DC	
LED indicator	±12, ±24, 50, 120, 230, 400, 690 V	
Tolerances LEDs	As in EN 61243-3:2010	
LCD voltage range	N/A	12 V...690V AC/DC
LCD display resolution	N/A	1 V
Tolerances of LCD display	N/A	± (3% rdg + 3 LSD)
Frequency range	DC, 16 2/3 Hz to 70 Hz	
Acoustic indication	>50 V AC, >120 V DC; 50 Hz sound pattern	
Voltage detection	Automatic	
Polarity detection	Full range	
Range detection	Automatic	
Response time	LED < 0.1s	LED < 0.1s, LCD < 1s
Automatic load (RCD)	Yes	
Internal load	Approximately 2.4 W at 690 V (load buttons not pressed)	
Current Is	<3.5 mA at 690 V (load buttons not pressed)	
Connectable load	Approximately 140 W at 690 V	
Test current connectable load	<200 mA	
Operation time (DT)	30s	
Recovery time	240s	
Automatic power on	>12 V (press load buttons) >24 V (w/o load buttons)	LEDs: >12 V (press load buttons) >24 V (w/o load buttons) LCD: >12 V

Single Pole Phase Test

Voltage range	100 V to 690 V against Earth	
Frequency range	40 Hz to 70 Hz	

Continuity Test

Range	0 to 500 kΩ	
Tolerance	0% to +50% (as in 61243-3:2010)	
Test current	<5µA	
Overvoltage protection	690 V AC/DC	

Rotary Field Detection

Voltage range	330 to 450 V against Earth	
Frequency range	47 HZ to 63 Hz	

General Specifications

Operating storage temperature	-15°C to +55°C, max. 95% RH	
Operating altitude	Up to 2000 m	
Measurement category	CAT IV 600 V, CAT III 690 V	
Pollution degree	2	
IP protection	IP 64	
Safety regulations	EN 61243-3:2010	
Agency approval	GS from TÜV Rheinland, CE	
Power supply	2x 1.5V (AAA / IEC LR03)	
Battery lifetime	Over 10000 measurements (<5s / per measurement)	
Dimensions (HxWxD)	Approximately 280 x 78 x 35 mm (11.0 x 3.1 x 1.4 in)	
Weight	Approximately 320 g (0.71 lb)	

For complete specifications please download the product datasheet and the users manual on www.beha-amprobe.com.