

2100 Series Two Pole **Voltage Testers**

2100-Alpha | 2100-Beta | 2100-Gamma

The Beha-Amprobe 2100-Alpha, 2100-Beta and 2100-Gamma are rugged and reliable two pole voltage testers for voltage and continuity checks. Built tough for use in industrial and commercial environments, the 2100 Series is safety rated up to CAT III 1000 V / CAT IV 600 V and measures voltage range up to 1000 V AC and 1200 V DC (2100-Gamma only). Designed with reinforced components for dependable performance, the 2100 Series has an ingress protection degree of IP 64 and is built according to voltage tester standard EN 61243-3:2010 and is GS approved.





2100 Series Features

- Automatic AC/DC voltage detection with polarity indication
- Voltage test up to 1000 V AC / 1200 V DC (2100-Gamma)
- Switchable load and 10 mA or 30 mA RCD trip test with two push buttons
- Automatic continuity test with visual (LED)
- **Single pole test** to check phase polarity
- · Two pole phase rotation indication
- Robust, double insulated cable with wear indication shows when the test leads are excessively worn or damaged and need replacement
- Torch light / measurement area **illumination** for working in poorly lit areas
- Audible indication when detected voltages above 50 V AC and 120 V DC
- Single-phase voltage detection using main probe - audible and visual signal when voltage detected
- Auto power ON/OFF and OFF button
- Non-contact voltage indication/ electric field (NCV/EF) - Non-contact voltage detection function 100-1000 V (2100-Gamma).
- Resistance measurement Measures and displays resistance up to 1999 ohms (2100-Gamma).
- · IP 64 splash and dust proof
- **GS approved,** built according to IEC 61243-3:2009, EN 61243-3:2010, DIN VDE 0682-401:2011
- Safety rated CAT IV 600 V / CAT III 690 (CAT III 1000 V 2100-Gamma)







Two Button Switchable Load/RCD Trip Test

When the two buttons are not pressed the unit is in high impedance mode, providing additional safety protection when testing live power sources, and avoiding accidental tripping of residual-current devices/earth leakage circuit breakers (RCD/ELCB). When the buttons are pressed the unit is in low impedance mode, eliminating inaccurate readings as result of ghost voltage. Additionally, in systems with RCDs you can press the buttons to intentionally trip 10 mA or 30 mA RCDs remotely and determine if they are wired correctly.



Long, durable test leads with wear indicator

Extra-long 1.5 m test leads make testing fast and convenient. The two pole tester's rugged, durable test leads have two layers of insulation for added durability and safety. If the inner, contrasting-colored layer is showing, that's a sign that the test leads require replacement.



Test probe protector cover with accessory storage

Store the 4 mm test probe extensions and GS38 protective probe caps, ensuring you always have them when needed. The test probe protector cover tip also helps to open UK electrical safety outlets.







Quick Guide

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Features:	2100-Alpha	2100-Beta	2100-Gamma
Safety Rating (overvoltage category)	CAT III 690 / CAT IV 600	CAT III 690 / CAT IV 600	CAT III 1000 / CAT IV 600
Voltage Range	12 - 690 V AC/DC	12 - 690 V AC/DC	6 - 1000 V AC / 6 - 1200 V DC
Voltage Indication - LCD		12 - 690 V AC/DC	6 - 1000 V AC, 6 - 1200 V DC
Voltage Indication - LED (12 - 690 V)	•	•	•
Continuity Test (visual and audible indication)	•	•	•
RCD Trip Test (10 mA or 30 mA)	•	•	•
Single Pole Phase Test	•	•	•
Full Range Polarity Detection	•	•	•
Two Pole Phase Rotation Indication	Right	Right	Right/Left
IP 64 Splash and Dust Proof	•	•	•
Torch Light/Measurement Area Illumination		•	•
Double Insulated Cable with Wear Indication	•	•	•
4 mm Test Probe Extensions (screwable) and Removable GS38 Protective Probe Caps			
Data Hold Function		•	•
Resistance Measurement and Low Resistance Indication			•
Non-Contact Voltage Detection			•



2100 Series Specifications

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	2100-Alpha	2100-Beta	2100-Gamma		
Voltage Test	i de la companya de				
LED voltage range	12 690 V AC/DC	12 690 V AC/DC	12 ≥690 V AC/DC		
LED indicator	±12, ±24, 50, 120	D, 230, 400, 690 V	±12, 24, 50, 120, 230, 400, ≥690 V		
LED tolerances		acc. to EN 61243-3:2010			
LCD voltage range	-	12 690 V AC/DC	61000 V AC / 61200 V DC		
LCD resolution	_	1			
LCD tolerance	_	± (3% rdg	g + 3 LSD)		
Frequency range LED and LCD response time		DC, 16 2/3 Hz400 Hz <1s			
Acoustic indication		≥50 V AC, ≥120 V DC			
Voltage detection		Automatic (AC/DC)			
Polarity detection		Full range			
Range detection		Automatic			
Current I	≤3.5 mA AC/DC at 690 V AC/DC		≤3.5 mAAC at 1000 VAC /		
(load buttons not activated)	23.3 TIM ACIDE & 030 V ACIDE		≤4.5 mADC at 1200 VDC		
Internal load (load buttons not activated)	Approximately 2.4 W at 690 V AC/DC		Approximately 3.5 W at 1000 VAC / Approximately 5.4 W at 1200 VDC		
Test current switchable load	250 11676		≤300 mAAC at 1000 VAC /		
(load buttons activated)	≤350 mA AC/DC	at 690 V AC/DC	≤350 mADC at 1200 VDC		
Switchable load	Approximately 240	W at 690 V AC/DC	Approximately 300 W at 1000 VAC /		
(load buttons activated)	у фризинасту 2 го		Approximately 420 W at 1200 VDC		
Automatic power ON	LED: >12 V (activated load buttons)	LED: >12 V (activated load buttons) >24 V (w/o load buttons)	LED: >12 V		
Automatic power On	>24 V (w/o load buttons)	LCD: >12V	LCD: > 6V		
Trip Test of RCD (earth leakage ci	rcuit breaker)				
Test current switchable load		>30 mAAC at 230 VAC			
(load buttons activated)		250 MAC at 250 VAC			
Single Pole Phase Test					
Voltage range	180690 VAC	C against earth	1001000 VAC against earth		
Frequency range Acoustic indication	40 Hz70 Hz				
Indication	yes Red LED				
Continuity Test (Rx) / Diode Test		Ned LED			
Range		0500 kΩ			
Tolerance	0% to +50%				
Test current	<5 μA				
Acoustic indication	yes				
Diode test	yes				
Indication	Red LED				
Overvoltage protection	690 V	AC/DC	1000 VAC/1200 VDC		
Automatic power ON Phase Rotation Indication		< 500 kΩ			
Voltage range	340 440 V AC	phase to phase	1701000 V AC phase to phase		
Frequency range		63 Hz	4070 Hz		
Indication		Red LED			
Resistance Measurement (Ω) / Lo	ow Resistance Indication "•>>>" (2100-Gam	nma only)			
Resistance range on LCD		01999 Ω			
Resolution		1 Ω			
Tolerance	± (5% rdg + 10 LSD) at 20°C				
Temperature coefficient Test current	± (5 LSD / 10 K) <30 μA				
Low resistance indication	<30 μA Acoustic indication <1050 Ω				
Overvoltage protection	690 V AC/DC 1000 VAC/1200 VDC				
Non-Contact Voltage Indication/E	-				
Voltage range			1001000 VAC		
Frequency range	-	_	5060 Hz		
Indication		_	3 levels shown by LCD segments:		
			= _=		
Data Hold		anhahana	veltage and 11		
Data hold	Tauch Limbs	only voltage measurement (12690V AC/DC)	voltage and resistance measurement, NCV		
Measurement Area Illumination / Torch light	iorch Light	White LED			
General Specifications		Willie LED			
Operation time (DT)		30 s			
Recovery time		240 s			
Operating temperature	-15°C to +55°C				
Storage temperature	-15°C to +55°C				
Humidity	Max. 95% RH				
Operating altitude	Up to 2000 m				
Safety rating (overvoltage category)	CAT IV / 600V, CAT III / 690V CAT IV / 600V, CAT III / 1000V				
Pollution degree		2			
	T. Control of the Con	IP 64			
Protection degree	150 010	242 2/2000 EN C1242 2/2040 EN UNE OCCC 12	1.2011		
Safety regulations	IEC 612	243-3:2009, EN 61243-3:2010, DIN VDE 0682-40	1:2011		
Safety regulations Approvals, compliance	IEC 612	GS mark from TÜV Rheinland, CE	1:2011		
Safety regulations Approvals, compliance Power Supply	IEC 612	GS mark from TÜV Rheinland, CE Battery 2 x 1.5V (AAA/ IEC LR03)	1:2011		
Safety regulations Approvals, compliance Power Supply Power consumption		GS mark from TÜV Rheinland, CE Battery 2 x 1.5V (AAAV IEC LR03) Approximately 60 mA			
Safety regulations Approvals, compliance Power Supply	More	GS mark from TÜV Rheinland, CE Battery 2 x 1.5V (AAA/ IEC LR03)	nent)		
Safety regulations Approvals, compliance Power Supply Power consumption Battery lifetime	More	GS mark from TÜV Rheinland, CE Battery 2 x 1.5V (AAA/ IEC LR03) Approximately 60 mA e than 10000 measurements (<5 s / per measuren	nent)		

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