

2100-GAMMA PRO

Safe and reliable voltage measurements in hard-to-reach places

Safety requirements for electrical switchboards are getting more rigorous and electrical parts are increasingly protected by covers to ensure they won't be accidentally touched. As electrical contact points become more covered, it is becoming harder to ensure reliable contact for testing without having to remove protective covers. Test probes on average voltage testers are generally too short for these enhanced isolators, making it difficult to assess voltage presence. Especially for proving the absence of voltage reliable contact is fundamental.

To allow you to do your job safely and easily, Beha-Amprobe has developed new test probe extenders.

These test probe extenders are especially designed to allow measurement at fuse switch disconnectors and busbars inside switchboards with isolators and isolation switches. The extenders ensure reliable contact without compromising safety.

Features

- **Safe and reliable** voltage measurements in tight spaces and on hard-to-access parts
- **Especially designed** to allow measurement at fuse switch disconnectors and busbars inside switchgears with isolators and isolation switches
- Safe up to **CAT IV 1000 V AC/DC / CAT III 1500 V DC**
- Fits on the Beha-Amprobe 2100 Voltage Testers Series and the FLUKE T90 / 110 / 130 / 150
- With thread (M3) for **fast connection and reliable contact**

2100-GAMMA PRO Contents

	2100-GAMMA PRO
2100-Gamma voltage tester	1
2100-ACCS PROBE test probe extender	2
GS 38 protective probe caps	2
4 mm Ø test probe extension (screwable)	2
1.5 V alkaline batteries (installed)	2
User Manual 2100 Gamma voltage tester	1
User Manual 2100-ACCS PROBE	1
CC-2100 holster	1

Features for 2100-GAMMA PRO

	2100-GAMMA PRO
Safety rating (measurement category)	CAT III 1000 V / CAT IV 600 V
Voltage test	•
Voltage indication—LCD	6...1000 V AC (16 2/3...1000 Hz), 6...1200 V DC
Voltage indication—LED	+12 / -12 / 24 / 50 / 120 / 230 / 400 / ≥690 V
Full range polarity detection	•
Single pole phase test	•
Continuity test (Rx) (visual and audible indication)	< 500 kΩ
Two pole phase rotation indication	Right / Left
Resistance measurement	0...1999 Ω
Low resistance indication (L Rx)	Sound < 10 Ω
Data Hold function	•
IP64 splash and dust proof	•
Backlight	•
Flashlight/Measurement area illumination	•
Reinforced insulated cable	•
4 mm Test Probe Extensions (screwable) and protective probe caps GS38	•
Holster	•



Features for 2100-ACCS-PROBE

	2100-ACCS-PROBE
Nominal voltage / Safety rating	CAT IV 1000 V AC/DC / CAT III 1500 V DC
Distance from tip to fingerguard (probe length)	102 mm
Safety regulations	IEC 61010-031
Designed for	2100 Alpha/Beta/Gamma and Fluke T90/T110, T130 and T150

Safety Certification

All Beha-Amprobe tools, including the Beha-Amprobe 2100-Gamma Pro, are rigorously tested for safety, accuracy, reliability, and ruggedness in our state-of-the-art test lab. In addition, Beha-Amprobe products that measure electricity are listed by a 3rd party safety lab, either UL or CSA. This system assures that Beha-Amprobe products meet or exceed safety regulations and will perform in a tough, professional environment for many years to come.



Specifications

	2100-GAMMA PRO
LED voltage range	12... ≥690 V AC/DC
LED indicator	+12, -12, 24 V: green LEDs 50, 120, 230 V: yellow LEDs 400, ≥690 V: red LEDs
LED tolerances	Acc. to EN 61243-3:2014
ELV indication LED	>50 V AC, >120 V DC: red LED
LCD voltage range	6...1000 V AC (16 2/3-400 Hz), 6...1200 V DC
LCD tolerance	± (3 % rdg + 3 dgt)
Frequency range	DC, 16 2/3 Hz...1000 Hz
LED and LCD response time	<1s
Acoustic indication	≥50 V AC, ≥120 V DC
Voltage detection	Automatic (AC/DC)
Polarity detection	Full range
Current I (load buttons not activated)	≤3.5 mA AC at 1000 V AC / ≤4.5 mA DC at 1200 V DC
Internal load (load buttons not activated)	Approximately 3.5 W at 1000 V AC / Approximately 5.4 W at 1200 V DC
Test current switchable load (load buttons activated)	≤350 mA AC at 1000 V AC / ≤420 mA DC at 1200 V DC
Switchable load (load buttons activated)	Approximately 350 W at 1000 V AC / Approximately 500 W at 1200 V DC
Automatic power ON	> 10 V
Impedance at ELV level	320 kΩ at 50 V AC
Impedance at ELV level and switched load	5 kΩ at 50 V AC
Low resistance indication	Sound < 10 Ω
Data hold	voltage and resistance measurement
Flashlight	White LED
Backlight	White LED
Trip test of RCD	
Test current switchable load (load buttons activated)	>30 mA AC at 230 V AC
Single pole phase test	
Voltage range	> 100 V AC
Frequency range	40...70 Hz
Acoustic indication	Yes
Indication	Red LED



Photo courtesy of [hager.de](https://www.hager.de)



Specifications (continued)

Continuity test (Rx)/Diode test	
Range	0...500 kΩ
Tolerance	0 % to +50 %
Test current	<5 μA
Acoustic indication	Yes
Indication	Yellow LED
Overvoltage protection	1000 V AC/1200 V DC
Automatic power ON	< 500 kΩ
Phase rotation indication	
Voltage range	170...1000 V AC phase to phase
Frequency range	40...70 Hz
Indication	Green LEDs
Resistance measurement (Ω)	
Resistance range on LCD	0...1999 Ω
Resolution	1 Ω
Tolerance	± (5 % +10 dgt) at 20 °C
Temperature coefficient	± (5 dgt / 10 K)
Test current	<30 μA
Acoustic indication	<10 Ω
Overvoltage protection	1000 V AC/1200 V DC

2100-GAMMA PRO	
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 (measurement category)	CAT IV 600 V, CAT III 1000 V
Pollution degree	2
Protection degree	IP 64
Safety regulations	IEC 61243-3:2014, EN 61243-3:2014, DIN VDE 0682-401:2015
Approvals, compliance	GS mark from TUV Rheinland, CE
Power supply	Battery 2 x 1.5 V (AAA/ IEC LR03)
Power consumption	Approximately 90 mA
Battery lifetime	More than 10000 measurements (<5 s / 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)

2100-ACCS-PROBE	
Designed for	BEHA-AMPROBE 2100 Alpha/Beta/Gamma/Delta and Fluke T90/T110, T130 and T150
Operating voltage / Safety rating	CAT IV 1000 V AC/DC / CAT III 1500 V DC
Operating current	max. 1 A
Safety regulations	IEC 61010-031
Protection degree	Mated: IP40 Unmated: IP20
Pollution degree	2
Diameter of metal tip	2 mm
Length of metal tip	3.5 mm
Distance from tip to fingerguard (probe length)	102 mm
Connection	Thread M3
Temperature range	-15 °C to 55 °C
Humidity	max. 95 % RH
Operating altitude	Up to 2000 m
Dimensions	Approx. 133 x 22 mm
Weight	Approx. 6 g

