

MODEL 1089e CHECKTRODE®



UFI
545 Main Street, Suite C-2
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Introduction

The Checktrode® is used to test the integrity of electrode/skin contacts in physiological and/or bio-electrical data acquisition systems.

Under microprocessor control, a highly accurate, constant-current AC signal is impressed across the electrodes under test. A signal derived from this excitation lights one of several LED lights to indicate the impedance range between the electrodes, and thus the electrode/skin contact quality.

Controls and connectors

Power on/test switch

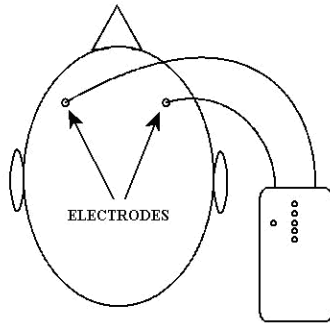
- Press and release to turn on Model 1089e.
- All LEDs light in sequence as system test.
- Unit then indicates electrode quality by illuminating appropriate LED.
- Powers down automatically after 3 minutes.
- LEDs blink in continuous cycle when battery needs to be replaced.

Input connectors

- Plug the electrodes to be tested into the 0.060" DIN safety jacks, one red and one black, located on the rear panel.

Using the Checktrode®

- Prepare electrode sites – abrade skin and use a conductive gel for good electrical contact with skin.
- Attach at least two electrodes to subject, then attach electrode leads to electrodes as shown:



- Connect two electrode leads to input jacks.
- Press power switch if Checktrode® is not already turned on.
- Unit performs self-test: LEDs light up in sequence.
- One LED then remains lit to show electrode contact impedance between the two connected electrodes.

Meaning of LEDs and indicated action:

< **5 K Ω** – *excellent* skin prep: proceed with recording and expect good results.

< **10 K Ω** – *good* skin prep, but expect some noise in the recording.

< **20 K Ω** – *fair* skin prep. Contact impedance may decrease with time, but for best recording quality, electrodes should be removed and skin re-prepped.

< **50 K Ω** or > **50 K Ω** – *bad* skin prep. Even slight patient motion will cause noise. Electrodes *must* be removed and skin re-prepped.

Model 1089e specifications

- Impedance ranges < 5K ohms
< 10K ohms
< 20K ohms
< 50K ohms
> 50K ohms
- Test frequency 30 Hz sine wave
- Test current < 10 microamps
- Input connectors 0.060" DIN jacks
- Power supply Standard 9V alkaline battery
- Size 5" x 2.75" x 1.5"
(127 x 70 x 38 mm)
- Weight 5.2 ounces (146g)

Warranty and repair

All UFI instruments are warranted against defects in materials and workmanship to the original purchaser for a period of one year from the date of original purchase. This warranty is void if our inspection shows the equipment has been tampered with; or installed at variance with factory-designated procedures; or has been subjected to negligence, misuse, or accident beyond normal usage; or has had the serial number altered, defaced, or removed.

All questions regarding the warranty should be directed to:
Customer Service Department
UFI
545 Main Street, Suite C-2
Morro Bay, CA 93442
Email: mail@ufiservingscience.com

No third party, including any dealer or agent, is authorized to assume any liability for UFI.

When corresponding or communicating with UFI concerning your equipment, please include the model and serial numbers.

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