KPS DT10, CC810

KPS Electrical Safety Starter Kit User Manual

Models: **DT10 Non-Contact Voltage Detector, CC810 GFCI Socket Tester**
Brand: KPS

1. Introduction

This manual provides detailed instructions for the safe and effective use of the KPS Electrical Safety Starter Kit, which includes the DT10 Non-Contact Voltage Detector and the CC810 GFCI Socket Tester. These tools are designed to assist in verifying electrical presence and proper wiring in residential and light commercial applications. Please read this manual thoroughly before operation and retain it for future reference.

Image 1.1: The KPS Electrical Safety Starter Kit, featuring the green pen-style DT10 Non-Contact Voltage Detector and the green plug-in CC810 GFCI Socket Tester.

2. Important Safety Information

Always adhere to local and national safety codes. Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Do not use the devices if they appear damaged or are not operating correctly.
- Verify the tester's operation on a known live circuit before and after use.
- Always wear appropriate personal protective equipment (PPE) when working with electricity.
- Do not attempt to measure voltages exceeding the specified maximum ratings.

- Keep hands and fingers away from the probe tip of the voltage detector and the prongs of the socket tester during operation.
- These tools are for testing purposes only and are not intended for continuous monitoring.

3. DT10 Non-Contact Voltage Detector

3.1 Features

- Non-contact detection of AC voltage.
- Detects AC voltage from 90V to 1000V.
- Audible and LED visual alerts for voltage presence.
- Compact, pen-style design with pocket clip.
- Rated to CAT II 1000V for residential environments.

Image 3.1: Visual representation of key features for both the DT10 Non-Contact Voltage Detector (left) and the CC810 GFCI Socket Tester (right). The DT10 detects AC voltage from 90-1000V with audible and LED indication.

3.2 Operation

1. **Power On:** Press the power button to turn on the detector. The LED indicator should illuminate,

confirming the device is active.

2. **Self-Test:** Test the detector on a known live circuit (e.g., a working wall outlet) to ensure it is functioning correctly. The LED should flash and an audible beep should sound.
3. **Detect Voltage:** Place the tip of the detector near the conductor, outlet, or circuit you wish to test.
4. **Indication:** If AC voltage is detected, the LED will flash and an audible alarm will sound. The frequency of the flashes and beeps may increase with higher voltage or closer proximity to the source.
5. **Power Off:** Press the power button again to turn off the detector. It may also feature an auto-off function after a period of inactivity.

3.3 Specifications (DT10)

- **Voltage Range:** 90V to 1000V AC
- **Frequency Range:** 50/60 Hz
- **Safety Rating:** CAT II 1000V
- **Power Source:** 2 x AAA batteries (not included)

4. CC810 GFCI Socket Tester

4.1 Features

- Tests 125V AC outlets for common wiring faults.
- LED indicators for clear fault identification.
- Integrated GFCI test button to verify GFCI functionality.
- Compact and durable design.
- Rated to CAT II 125V for residential environments.

4.2 Operation

1. **Insert Tester:** Plug the CC810 into a standard 3-prong 125V AC outlet.
2. **Observe Indicators:** The LED indicators on the tester will illuminate to show the wiring status of the outlet. Refer to the 'Interpreting Indicators' section for details.
3. **GFCI Test (if applicable):** For GFCI-protected outlets, press the GFCI test button on the tester. A working GFCI outlet should trip, cutting power to the outlet.
4. **Reset GFCI:** If the GFCI trips, reset it at the outlet or circuit breaker.
5. **Remove Tester:** Unplug the tester from the outlet after completing the test.

4.3 Interpreting Indicators

The CC810 uses a combination of three LED lights to indicate the wiring status of the outlet. Refer to the legend on the device or the table below:

LED Pattern	Wiring Status	Action Required
Two amber lights on	Correct Wiring	None
One amber light on (right)	Open Ground	Consult a qualified electrician.
One amber light on (left)	Open Neutral	Consult a qualified electrician.

LED Pattern	Wiring Status	Action Required
No lights on	Open Hot	Consult a qualified electrician.
Two amber lights on, one red light on	Hot/Ground Reverse	Consult a qualified electrician.
One amber light on (left), one red light on	Hot/Neutral Reverse	Consult a qualified electrician.

4.4 GFCI Test

To test a Ground Fault Circuit Interrupter (GFCI) protected outlet:

1. Plug the CC810 into the GFCI outlet. Ensure the wiring status indicates 'Correct Wiring'.
2. Press the red GFCI test button on the CC810.
3. A functional GFCI should trip, cutting power to the outlet. The lights on the CC810 will turn off.
4. If the GFCI does not trip, it may be faulty and should be replaced by a qualified electrician.
5. Reset the GFCI by pressing its 'RESET' button or resetting the corresponding circuit breaker.

4.5 Specifications (CC810)

- **Operating Voltage:** 125V AC
- **Frequency Range:** 50/60 Hz
- **Safety Rating:** CAT II 125V

5. Applications

The KPS Electrical Safety Starter Kit is suitable for various electrical testing scenarios:

- **Residential Wiring:** Ideal for identifying faulty outlets and circuit problems in homes.
- **Commercial Electrical Maintenance:** Useful for electrical inspections and troubleshooting in commercial settings.
- **Industrial Troubleshooting:** Can be used for basic testing of machinery, circuits, and panels in industrial environments.

Image 5.1: Depiction of various applications for the KPS Electrical Safety Starter Kit, including residential wiring, commercial electrical maintenance, and industrial troubleshooting.

6. Maintenance

- **Cleaning:** Wipe the devices with a dry, clean cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement (DT10):** When the DT10's indicator light becomes dim or fails to illuminate, replace the AAA batteries. Ensure correct polarity.
- **Storage:** Store the tools in a cool, dry place, away from direct sunlight and extreme temperatures.

7. Troubleshooting

Problem	Possible Cause	Solution
DT10 does not turn on or detect voltage.	Dead batteries; device malfunction.	Replace batteries; test on a known live circuit. If still not working, discontinue use.

Problem	Possible Cause	Solution
CC810 shows incorrect wiring on a known good outlet.	Tester malfunction; issue with the outlet.	Test on another known good outlet. If issue persists, discontinue use of tester. If other outlets show correct wiring, consult an electrician for the faulty outlet.
GFCI test button on CC810 does not trip GFCI.	Faulty GFCI outlet; tester malfunction.	Ensure the outlet is indeed GFCI protected. If it is, the GFCI may be faulty and require replacement by a qualified electrician.

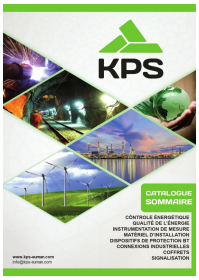
8. Warranty Information

KPS products are manufactured to high-quality standards. This product is covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official KPS website.

9. Customer Support

For technical assistance, product inquiries, or warranty claims, please contact KPS customer support. You can find contact information and additional resources by visiting the KPS Store on Amazon or the official KPS website.

Related Documents - DT10, CC810

	KPS FASTCHECK3010 Multifunction Electrical Safety Tester User Manual User manual for the KPS FASTCHECK3010, a multifunction electrical safety tester. This guide covers its features, operation, and safety precautions for testing electrical systems according to IEC standards.
	KPS Catalogue Sommaire: Contrôle Énergétique et Solutions Industrielles Découvrez le catalogue complet de KPS, présentant des solutions innovantes en contrôle énergétique, instrumentation de mesure, matériel d'installation, dispositifs de protection, connexions industrielles, coffrets et signalisation. Améliorez l'efficacité énergétique de vos installations avec des produits de haute qualité fabriqués en Europe.
	KPS PA700 AC Digital Clamp Meter User Manual User manual for the KPS PA700 AC Digital Clamp Meter, detailing its features, specifications, safe operation, and measurement guidance for electrical testing.

	KPS MT700 Digital Multimeter User Manual User manual for the KPS MT700 Digital Multimeter, covering safety information, product description, specifications, usage instructions, maintenance, and accessories. Features True RMS, AC/DC voltage and current measurement, resistance, capacitance, frequency, and more.
	KPS DCM6000PW Clampmeter User Manual - 600A AC/DC Power Measurement Official user manual for the KPS DCM6000PW clampmeter. Learn how to measure power with this 600A AC/DC digital clamp meter.
	KPS MT30 Digital Multimeter User Manual Comprehensive user manual for the KPS MT30 Digital Multimeter, covering features, safety information, technical specifications, and measurement procedures.