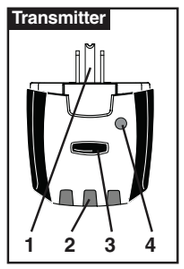
# SPERRY INSTRUMENTS

## OPERATING INSTRUCTIONS

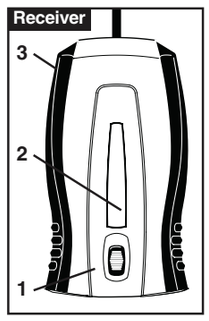
### BREAKER FINDER™

**CIRCUIT BREAKER LOCATOR - CS61200**

Read this owners manual thoroughly before use and save.




1. 3-Prong Outlet Tester
2. Color-Coded Wiring Status
3. GFCI Test Button.
4. Transmit on L.E.D.




1. On-OFF Button
2. 10 Visual Indication L.E.D.s
3. Over-Molded Soft Grips

- Patented Sensing Probe
- Magnetic back
- Snap Together Edges
- Operates from 9 Volt Battery (included)

The CS61200 Breaker Finder is used to quickly and easily locate the breaker or fuse protecting a specific electrical circuit. It uses a plug-in transmitting device and receiver to trace outlets, switches and lighting fixtures. The plug-in transmitter also includes an integrated outlet tester to assure the circuit is wired properly. The transmitter and receiver snap together for compact storage.

### SPECIFICATIONS

- **Receptacle Transmitter Operating Range:** 90 to 120 VAC; 60 Hz
- **Indicators:** Audible and Visual
- **Operating environment:**
  32°- 104°F (0°- 40°C) 80% RH max., 50% RH above 30°C
  Altitude up to 2000 meters. Indoor use.
  Pollution degree 2. Accordance with IED-664
- **Battery:** Receiver operates from one 9 Volt
- **Cleaning:** Remove grease and grime with clean, dry cloth
- **Ingress Protection:** IPX0
- **Measurement Category:** CAT II 120V

### READ FIRST: IMPORTANT SAFETY INFORMATION

In an effort to go green, the full instructions for this tool can be downloaded from *www.sperryinstruments.com/en/resources.* Please be sure to fully read the instructions and warnings prior to using this tool. Damage to the tool or injury to the user may result from failure to follow all instructions or warnings!

**READ ALL OPERATING INSTRUCTIONS BEFORE USE.**

Use extreme caution when checking electrical circuits to avoid injury due to electrical shock. Sperry Instruments assumes basic knowledge of electricity on the part of the user and is not responsible for any injury or damages due to improper use of this tester.

**OBSERVE** and follow all standard industry safety rules and local electrical codes. When necessary call a qualified electrician to troubleshoot and repair the defective electrical circuit.

### SAFETY SYMBOLS

CAUTION Refer to this manual before using this tester.

The tester is protected throughout by double insulation or reinforced insulation.

### SAFETY WARNINGS

This instrument has been designed, manufactured and tested according to IEC61010: Safety requirements for Electronic Measuring apparatus, and delivered in the best condition after passing inspection. This instruction manual contains warnings and safety rules which must be observed by the user to ensure safe operation of the instrument and retain it in safe condition. Therefore, read through these operating instructions before using the instrument.

DANGER is reserved for conditions and actions that are likely to cause serious or fatal injury.

WARNING is reserved for conditions and actions that can cause serious or fatal injury.

CAUTION is reserved for conditions and actions that can cause injury or instrument damage.

ISO 7000-0434B (2004-10) **CAUTION*** *It must be consulted in all cases where ⚠ is marked, in order to find out the nature of the potential HAZARDS and any actions which have to be taken to avoid them.

**WARNING**

- Read through and understand the instructions contained in this manual before using the instrument.
- Keep the manual at hand to enable quick reference whenever necessary.
- The instrument is to be used only in its intended applications.
- Understand and follow all the safety instructions contained in the manual.
- Failure to follow the above instructions may cause injury, instrument damage and/or damage to equipment under test.
- Never attempt to make measurement if any abnormal conditions, such as broken case and exposed metal parts are found on the instrument.
- Do not install substitute parts or make any modification to the instrument.
- Verify proper operation on a known source before use or taking action as a result of the indication of the instrument.
- Only accessories which meet the manufacturer's specifications shall be used.
- Do not use the probe assemblies for measurements on mains circuits.
- The safety of any system incorporating the equipment is the responsibility of the assembler of the system.

**DANGER**

- Do not attempt to make measurement in the presence of flammable gases. Otherwise, the use of the instrument may cause sparking, which can lead to an explosion.
- Never attempt to use the instrument if its surface or your hand is wet.
- Never open the battery cover during a measurement.
- The instrument is to be used only in its intended applications or conditions. Otherwise,safety functions equipped with the instrument do not work, and instrument damage or serious personal injury may be caused.

**CAUTION**

- Do not expose the instrument to direct sun, high temperature and humidity or dewfall.
- Altitude 2000m or less. Appropriate operating temperature is within 0° C and 40° C.
- This instrument isn't dust and water proofed. Keep away from dust and water.
- Be sure to power off the instrument after use. When the instrument will not be in use for a long period, place it in storage after removing the batteries.
- Cleaning: Use a cloth dipped in water or neutral detergent for cleaning the instrument. Do not use abrasives or solvents otherwise instrument may get damaged, deformed or discolored.
- This instrument isn't dust and water proofed. Keep away from dust and water.

The Symbol ⚠ indicated on the instrument means that the user must refer to the related parts in the manual for safe operation of the instrument. It is essential to read the instructions wherever the ⚠ symbol appears in the manual. Marks listed in the table below are used on this instrument.

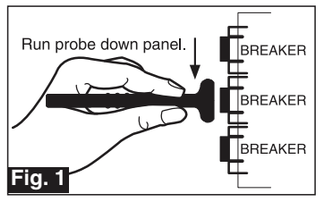
⚠ User must refer to the manual.

Instrument with double or reinforced insulation.

### OPERATION

Using the plug-in transmitter and hand-held receiver, quickly and safely detect the proper breaker or fuse protecting a specific outlet, wall switch or lighting fixture.
*Note: A separateaccessory, CS61200AS, is required to trace switches and lighting fixtures.*

**Locating Electrical Outlets**




1. Detach transmitter from receiver housing and plug into outlet.
2. Verify transmitter is sending a signal by viewing the Green "Transmit" L.E.D. on the top of the unit.
3. The transmitter also includes an outlet wiring tester. For operation of this feature please review and follow the directions at the end of the manual.
4. Verify receiver has a fresh 9-volt battery and operating properly by viewing the L.E.D.(s) on the front of the receiver.
5. Using the "wand" on the receiver, as shown in **Fig. 1**, trace the breakers or fuses to detect the transmitting signal. The orientation of the wand is critical in order to pick up the transmitting signal. Place the wand as shown for proper operation.

*Note: Due to the proximity of other electrical wiring it is possible for the receiver to indicate a signal on multiple breakers. To locate the proper breaker it may be necessary to listen for the loudest beeping and watch for the highest L.E.D. indication to identify the proper breaker.*

6. Once the proper breaker is located, continue to hold the receiver wand against the breaker and switch the breaker off. This will remove power to the remote transmitter and the receiver will stop producing a response. As an additional precaution verify the power is off by viewing the status of the green L.E.D. on the transmitter. It will not be illuminated if the power is off.

**Locating Lighting Fixture Circuits (requires accessory part #CS61200AS)**



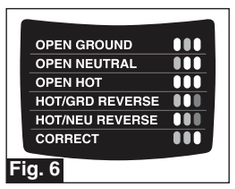

1. Remove light bulb and insert the yellow screw in receptacle. **(Fig. 3)**
2. Plug the transmitter into the adapter and verify power is on by viewing the green L.E.D. on the transmitter. Note: Power must be on for the transmitter to work. **(Fig. 3)**
3. Go to breaker panel and locate the circuit using the receiver **(Fig. 2)** as discussed in the previous "Operation" section.

**Locating Switches and Other Wiring (requires accessory part # CS61200AS)**

1. Attach the black alligator clip to the hot (black) wire and the white alligator clip to the neutral wire (white). If a neutral wire is not present clip the white lead to a ground wire or metal box.
2. Screw in the yellow receptacle adapter and plug in the transmitter. Verify the power is on by viewing the green L.E.D. on the transmitter. **(Fig. 4)**
3. Go to the breaker panel and locate the circuit using the receiver **(Fig. 2)** as discussed in the previous "Operation" section.

**OUTLET TESTER**

1. Detach the outlet tester from the receiver housing.
2. Plug the unit into any 120 VAC 3-wire outlet. **(Fig. 5)**
3. Observe the L.E.D.s and match with the status chart located on the housing. **(Fig. 6)**
4. Rewire outlet (if necessary) until the tester indicates a correct wiring status.


**GFCI Test Function Operation:**

1. Plug the tester into any 120 Volt standard or GFCI outlet.
2. View the indicators on the tester and match with the chart on the tester.
3. If the tester indicates a wiring problem then turn off all power to the outlet and repair wiring.
4. Restore power to the outlet and repeat steps 1-3.

**To Test GFCI Protected Outlets:**


1. Consult the GFCI manufacturer's installation instructions to determine that the GFCI is installed in accordance with the manufacturer's specifications.
2. Check for correct wiring of receptacle and all remotely connected receptacles on the branch circuit.
3. Operate the test button on the GFCI installed in the circuit. The GFCI must trip. If it does not — do not use the circuit — consult an electrician. If the GFCI does trip, reset the GFCI. Then, insert the GFCI tester into the receptacle to be tested.
4. Activate the test button on the GFCI tester for a minimum of 6 seconds when testing the GFCI condition **(Fig. 7)**. Visible indication on the GFCI tester must cease when tripped.
5. If the tester fails to trip the GFCI, it suggests:
   a) a wiring problem with a totally operable GFCI, or
   b) proper wiring with a faulty GFCI.
   Consult with an electrician to check the condition of the wiring and GFCI.

CAUTION When testing GFCIs installed in 2- wire systems (no ground wire available), the tester may give a false indication that the GFCI is not functioning properly. If this occurs, recheck the operation of the GFCI using the test and reset buttons. The GFCI button test function will demonstrate proper operation.

**Note:**

1. All appliances or equipment on the circuit being tested should be unplugged to help avoid erroneous readings.
2. Not a comprehensive diagnostic instrument but a simple instrument to detect nearly all probable common improper wiring conditions.
3. Refer all indicated problems to a qualified electrician.
4. Will not indicate quality of ground.
5. Will not detect two hot wires in a circuit.
6. Will not detect a combination of defects.
7. Will not indicate a reversal of grounded and grounding conductors.

### REPLACING THE BATTERIES

The receiver unit operates from a standard 9 Volt battery. To replace, remove the battery door cover located on the back, with a small screwdriver. Replace with new battery and then shut the battery door.

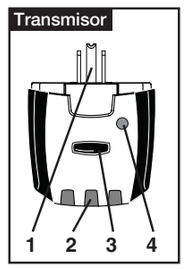
# SPERRY INSTRUMENTS

## INSTRUCCIONES DE OPERACIÓN

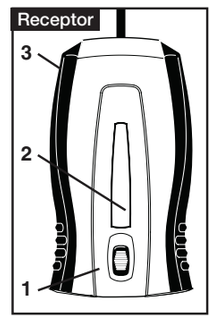
### BREAKER FINDER™

**LOCALIZADOR DE DISYUNTORES - CS61200**

Lea este manual del propietario totalmente antes del uso y ahorre.




1. Probador de tomacorrientes de 3 clavijas
2. Estado de cableado identificado con colores
3. Botón de prueba GFCI [circuito de falla por puesta a tierra]
4. L.E.D. indicador de transmisión




1. Botón de encendido y apagado
2. 10 L.E.D. indicadores visuales
3. Agarre suave, sobremoldeado

- Sonda detectora patentada
- Dorso magnético
- Bordes con encaje de unión
- Funciona con batería de 9 voltios (incluida)

El localizador de disyuntores CS61200 se usa para ubicar rápida y fácilmente el disyuntor o fusible que protege un circuito eléctrico específico. Utiliza un dispositivo transmisor enchufable y un receptor para rastrear tomacorrientes, interruptores y luces. El transmisor enchufable también incluye un probador de tomacorriente integrado para asegurar que se cablee correctamente el circuito.
El transmisor y el receptor encajan juntos para guardarse de manera compacta.

### ESPECIFICACIONES

- **Rango de funcionamiento del transmisor del receptáculo:** 90 a 120 V CA; 60 Hz
- **Indicadores:** Sonoros y visuales
- **Ambiente operativo:**
  0°- 40°C 80% de humedad relativa máx., 50% de humedad relativa sobre 30°C
  Altitud de hasta 2000 metros. Uso en interiores.
  Grado de contaminación 2. Según IED-664
- **Batería:** El receptor funciona con una batería de 9 voltios
- **Limpieza:** Retire la grasa y la mugre con un paño seco y limpio
- **Protección contra la entrada de suciedad:** IPX0
- **Categoría de Medición:** CAT II 120 V

### LEER PRIMERO: INFORMACIÓN IMPORTANTE DE SEGURIDAD

Con el fin de proteger el medio ambiente, las instrucciones completas para esta herramienta se pueden descargar desde *www.sperryinstruments.com/en/resources.* Por favor, asegúrese de leer completamente las instrucciones y advertencias antes de usar esta herramienta. ¡Si no se siguen todas las instrucciones o advertencias se pueden provocar daños a la herramienta o lesiones para el usuario!

**LEA TODAS LAS INSTRUCCIONES OPERATIVAS ANTES DEL USO.**

Tenga sumo cuidado al revisar los circuitos eléctricos para evitar lesiones debido a choques eléctricos. Sperry Instruments supone el conocimiento básico de la electricidad por parte del usuario y no es responsable de ninguna lesión ni daños debido al uso incorrecto de este probador.

**OBSERVE** y siga todas las reglas estándar de seguridad de la industria y los códigos eléctricos locales. Cuando sea necesario llame a un electricista capacitado para resolver problemas y reparar el circuito eléctrico defectuoso.

### SÍMBOLOS DE SEGURIDAD

PRECAUCIÓN Consulte este manual antes de usar este probador.

El probador está protegido totalmente mediante doble aislamiento o aislamiento reforzado.

### ADVERTENCIAS DE SEGURIDAD

Este instrumento ha sido diseñado, fabricado y probado conforme a IEC61010: Requisitos de seguridad para aparatos electrónicos de medición, y se entrega en el mejor estado después de pasar la inspección. Este manual de instrucciones contiene advertencias y reglas de seguridad que el usuario debe observar para garantizar el funcionamiento seguro del instrumento y mantener su estado sin presentar peligro. Por lo tanto, lea estas instrucciones operativas antes de usar el instrumento.

PELIGRO se reserva para condiciones y acciones que probablemente causen lesiones serias o fatales.

ADVERTENCIA se reserva para condiciones y acciones que pueden causar lesiones serias o fatales.

PRECAUCIÓN se reserva para condiciones y acciones que pueden causar lesiones o daño al instrumento.

ISO 7000-0434B (2004-10) **PRECAUCIÓN*** *Se debe consultar en todos los casos donde ⚠ esté indicado, para conocer la naturaleza de los posibles PELIGROS y las acciones que deben tomarse para evitarlos.

**ADVERTENCIA**

- Lea totalmente y en detalle las instrucciones contenidas en este manual antes de usar el instrumento.
- Conserve a mano el manual para poder usarlo a modo de referencia rápida siempre que sea necesario.
- El instrumento debe usarse solamente en las aplicaciones contempladas.
- Entienda y siga todas las instrucciones de seguridad contenidas en el manual.
- Si no se siguen las instrucciones anteriores puede causar lesiones, daño al instrumento y/o daño al equipo a prueba.
- Nunca intente tomar medidas si se encuentra alguna condición anormal, tal como la caja rota o piezas metálicas expuestas en el instrumento.
- No sustituya piezas ni haga modificaciones al instrumento.
- Verifique el funcionamiento correcto en una fuente conocida antes de usar o de actuar basándose en lo que indique el instrumento.
- Solo se deben utilizar accesorios que cumplan con las especificaciones del fabricante.
- No utilice los conjuntos de sondas para mediciones en circuitos de la red eléctrica.
- La seguridad de cualquier sistema en el que se incorpore el equipo es responsabilidad del instalador del sistema.

**PELIGRO**

- No intente tomar medidas en la presencia de gases inflamables. De lo contrario, el uso del instrumento puede causar chispas, lo cual puede ocasionar una explosión.
- Nunca intente usar el instrumento si está mojada la superficie o la mano.
- Nunca abra la tapa de la batería durante una medición.
- El instrumento debe usarse solamente en las aplicaciones o condiciones contempladas. De lo contrario, las funciones de seguridad con las cuales se ha equipado el instrumento quedan inoperantes, y puede causarse daño al instrumento o lesiones físicas serias.

**ADVERTENCIA**

- No exponga el instrumento al sol directo, a alta temperatura ni humedad o caída de rocío.
- Altitud de 2000 m o menor. La temperatura operativa adecuada está entre 0°C y 40 °C.
- Este instrumento no es a prueba de polvo ni agua. Manténgalo alejado del polvo y del agua.
- Confirme que se haya apagado el instrumento después del uso. Cuando el instrumento no vaya a estar en uso por un tiempo largo, póngalo en almacenamiento después de extraerle las baterías.
- Limpieza: Use un paño sumergido en agua o detergente neutro para limpiar el instrumento. No use abrasivos ni solventes, de lo contrario el instrumento puede dañarse, deformarse o decolorarse.
- Este instrumento no es a prueba de polvo ni de agua. Manténgalo alejado del polvo y del agua.

El símbolo ⚠ indicado en el instrumento significa que el usuario debe consultar las partes relacionadas en el manual para operar de manera segura el instrumento. Es esencial leer las instrucciones siempre que aparezca ⚠ el símbolo en el manual. Se usan las marcas indicadas en la tabla a continuación en este instrumento.