



REVISION	APPLICATION
Initial revision.	<p><b>This accessory is intended for use with the following Siemens type WL circuit breakers:</b></p> <p>Molded Case Circuit Breaker (E231263) Types "WLxxD3xx" &amp; "WLxxF3xx"</p> <p>Low Voltage AC Power Circuit Breaker (E223684) Type "WLxxA3xx"</p> <p>Low Voltage AC Integrally Fused Power Circuit Breaker (E224354) Type "WLFxA3xx"</p>

**DANGER**

**Hazardous voltages are present during operation.**

**Will cause death, serious personal injury, or equipment/property damage.**

Disconnect power before performing service or retrofitting on Low Voltage Switchgear or Low Voltage Power Circuit Breakers, strictly adhering to OSHA lock-out / tag-out policies.

Only qualified personnel should work on this equipment, after becoming thoroughly familiar with all warnings, safety notices, and maintenance procedures contained herein and on the devices.

The successful and safe operation of this equipment is dependent on proper handling, installation, operation, and maintenance.

Only SIEMENS authorized repair or replacement parts shall be used on this equipment.

All maintenance / inspection policies dictated here-within must be strictly adhered to.

## **NOTICE**

These instructions do not purport to cover all details or variations in equipment, nor to provide for every possible contingency to be met in connection with installation, operation or maintenance.

Should further information be desired or should particular problems arise which are not covered sufficiently for the Purchaser's purposes, the matter should be referred to the local Siemens Sales Office.

The contents of this instruction manual shall not become part of or modify any prior or existing agreement, commitment or relationship. The sales contract contains the entire obligations of Siemens. The warranty contained in the contract between the parties is the sole warranty of Siemens. Any statements contained herein do not create new warranties or modify the existing warranty.

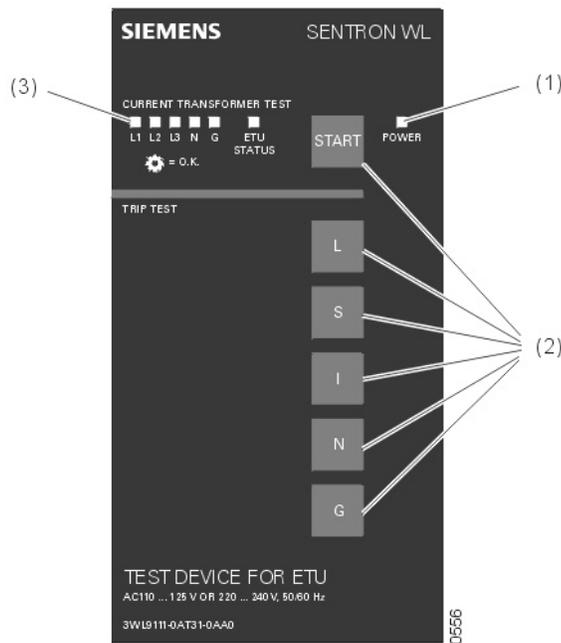
Designations in this documentation can be trade-marks. Use by third parties for their own purposes violates the owner's rights.

	 <b>DANGER</b>
	<b>Hazardous voltage!</b>
	<b>Will cause death, serious personal injury, or equipment / property damage.</b>
Disconnect power before removing or installing accessories in this equipment.	

## HAND-HELD TEST DEVICE

The test device is used to verify the proper operation of the trip unit, the energy transformers and current transformers as well as the tripping solenoid F5 and the measured value display.

### View



- (1) LED for operating voltage indication
- (2) Control buttons
- (3) 6 LED's to show test results

### Preparations

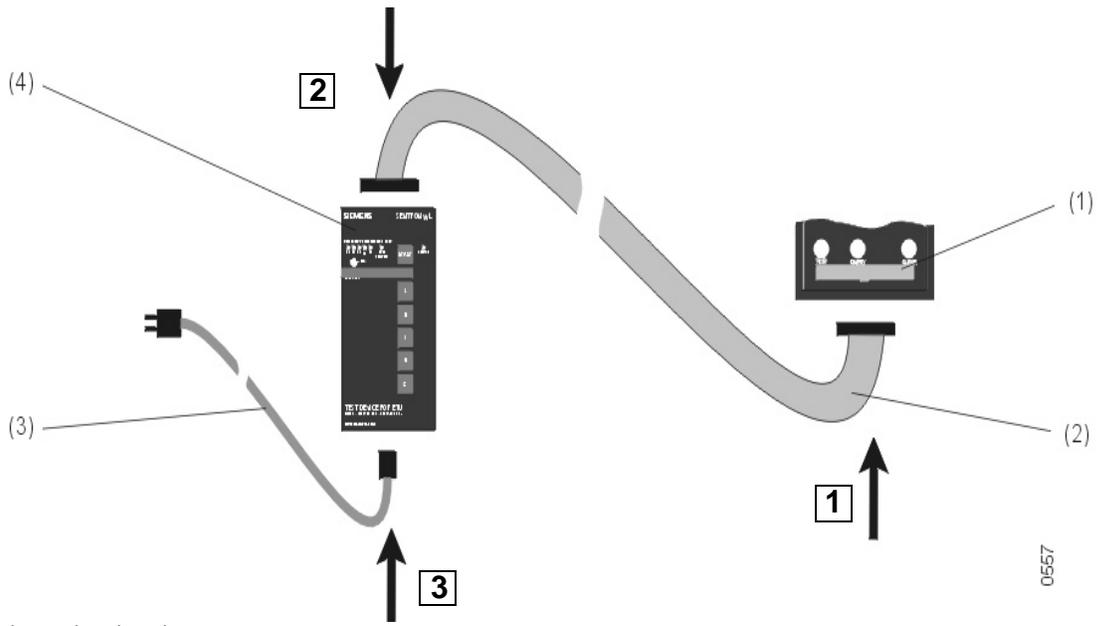
- OPEN and isolate the circuit breaker
- Interrupt external voltage supply for the electronic system, if available

<b>CAUTION</b>
Nuisance Tripping.  May cause unintended opening/closing of downstream equipment, and damage to test equipment.  Do not use the Hand-Held Test Unit with the circuit breaker in the CONNECTED position.

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	<p>Disconnect power before removing or installing accessories in this equipment.</p>

**Connection**

<p><b>NOTICE</b></p>
<p>Observe the connecting sequence! Otherwise there may be false tripping and false results.</p>



- (1) Test socket at the trip unit
- (2) 40-pole ribbon cable with plugs
- (3) Voltage supply
- (4) Test device

**Voltage supply**

The test device is supplied by a 110V AC network.

**Operation**

The status test starts immediately after connecting the voltage supply and queries the various components and parameters of the trip unit .  
If the status test is succesful, the "ETU STATUS" LED will light up.

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	<p><b>Hazardous voltage!</b></p> <p><b>Will cause death, serious personal injury, or equipment / property damage.</b></p> <p>Disconnect power before removing or installing accessories in this equipment.</p>

Otherwise, the "ETU STATUS" LED will flash. It is possible to draw conclusions about the fault cause from the way in which it flashes.

Indicator	Significance
1 x briefly, pause	Test device defective
2 x briefly, pause	Trip unit defective
4 x briefly, pause	<ul style="list-style-type: none"> <li>- Parameters not set correctly</li> <li>- Current sensor not properly connected</li> <li>- wrong rating plug</li> <li>- Missing rating plug</li> </ul>
5 x briefly, pause	<ul style="list-style-type: none"> <li>- Tripping solenoid F5 not properly connected</li> <li>- Solenoid defective</li> </ul>

The status test can be repeated any time by pressing the "START" button for at least three seconds.

It is basically also possible to test a trip unit that is already activated, i.e. supplied by an external voltage source. However, it must be taken into account that the "ETU STATUS" LED may briefly flash twice when the status test result is displayed even if there have not been any faults. As a precaution, the status test should be repeated without external voltage supply of the trip unit .

### Testing the current and energy sensors

To test the current sensors and energy transducers, press the "START" button.

A lit-up LED confirms the proper operation of the corresponding transformer/transducer. If an LED flashes, the corresponding transformer/transducer is not available, not properly connected or defective.

### Testing the tripping function

- Charge the storage spring by hand
- Close

To test the tripping function, press one of the buttons "L", "S", "I", "N" or "G".

The circuit breaker must trip after the time delay adjusted for the corresponding function. The tripping reason can be inquired through the "QUERY" button at the trip unit. Otherwise, the trip unit doesn't have the corresponding protective function or is defective.

### Testing the display of the measured values

To check the correctness of the measured values displayed, simultaneously press the "I" and "N" keys if the circuit breaker has this feature.

A current is successively simulated via the measuring transformers in L1, L2, L3, N and G for 30 sec.. The LED of the respective transformer will flash. The test can be considered successful if current is indicated in the corresponding position.

### Catalog number

	Order No.
Test device	WLTS

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