FACTSHEET

COMBITE TEST
Safer secondary injection testing of protective relays

The COMBITE TEST relay test system provides a safe, secure and user-friendly method for secondary injection testing of relay protection systems, switchboards and meters during commissioning and maintenance. It helps standardize panel designs across the install base.

Challenges

Safety
The testing personnel are routinely exposed to potentially hazardous wiring, which can create serious safety risks.

Efficiency
Traditional test systems are often time-consuming and complex, due to the need for proper and safe handling of instrument wiring.

Space constraints
The installation space needed for traditional test systems often require a considerable portion of the cabinet dedicated just for testing.

The COMBITE TEST solution

Safety
COMBITE TEST is a finger-safe solution with no exposure to energized components. It also increases safety for personnel and equipment with an automatic sequence-controlled mechanism.

Efficiency
Through a single test handle, using a single motion to isolate all of the AC and DC secondary circuits, COMBITE TEST efficiently standardizes relay testing.

Space constraints
Maximum space savings with compact designs and up to six times more test points available, compared to traditional solutions.
**Key benefits**

COMBITEST provides a safer sequence-controlled testing mechanism that automatically:

- First, disconnects the trip circuits sequentially when the test-plug handle is inserted
- Then, completely isolates the secondary circuits of the measuring transformers
- Finally, returns the device from test mode to service mode upon withdrawal of test handle

COMBITEST is designed for safety and convenience:

- Finger-safe components
- Prevents accidental opening of the CT secondary or tripping a circuit breaker during testing
- Standardized test handle results in shorter test duration
- Time-saving single action of the test handle puts an IED in IEC 61850 test mode and safely shorts the CT secondary circuit

COMBITEST maximizes space savings:

- Allows up to 40% space reduction in customer protection and control panels
- Flexible mounting options to support various applications
- Available in various sizes with high density of test points

COMBITEST includes a 10-year warranty. More details can be found in our purchase agreement.

**COMBITEST products**

- **Test switch** (RTXP 8, RTXP 18, RTXP 24)
- **Test-plug handles** (RTXH 8, RTXH 18, RTXH 24)
- **Trip-block plug** (RTXB) – Isolates a trip circuit without interrupting other circuits. Allows the trip output to be monitored and also provides visual indication of an isolated trip circuit.
- **Block-plug handle** (RTXF) – For disconnecting all circuits routed through the test switch.
- **Ammeter test-plug** (RTXM) with local automatic shorting device in case of inadvertent opening of a CT circuit.