

Live CT and Full Load PT Testing

Red Phase Instruments manufacture a comprehensive range of test gear to meet a variety of regulatory testing mandates.

Some of the most difficult tasks associated with such mandates is the need for online checking of live field equipment.

Current Transformers occasionally fall into this maintenance category particularly when installed in high revenue areas such as large estates, shopping centres, universities etc, where taking them offline is generally not an option.

Red Phase Instruments offer two Live CT test options to meet this demand: The 590F and the 505B.

The 590F accessory shown here comes in High Voltage and Low Voltage variations. Used with the 590G-V2 CT Tester it is able check live CT ratio and phase under customer load conditions on up to 100kV lines.

Optically isolated, the High Voltage 590F converts the optical signal to a RS-485 electrical protocol which is transmitted back to the 590G-V2 via a 100m cable included with the unit.

The Low voltage unit generally does not require this extra cabling as the primary is normally quite accessible and close to the secondary which the 590G-V2 CT tester is connected to.

The 505B is a portable, battery operated live CT test unit designed to take advantage of the inherent behavior of a CT's admittance value under fault conditions such as interturn breakdowns / shorted turns, tampering, incorrect multi-ratio CT connections and bad joints . It can also check live CT and PT burdens and comes with a USB port for easy record storage to a PC.

Housed in a rugged pelican case offering high resistance to impact moisture and corrosion.



590D-1

Full Load Inductive PT Tester

The 590D-1 is an accessory to the 590G-V2 and is capable of testing PT's under simulated load conditions to 0.1% accuracy.

Other measurement capabilities:

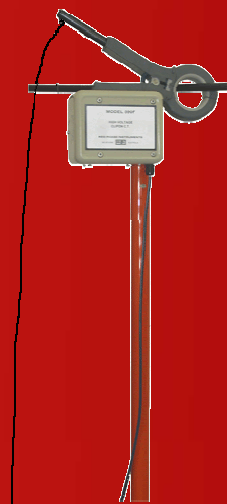
- Primary & Secondary winding resistance.
- Secondary winding with primary shorted.
- Primary winding admittance with secondary shorted.
- Turns Ratio / No load voltage ratio
- Secondary admittance with primary open circuit.

A high power 1.2kW internal supply provides the 590D-1 with the ability to test PT ratios and phase errors up to 300kV and profile the transformer under load at:

80, 100 and 120% of applied primary voltage and at 25 and 100% burden at selectable power factors.

Comes with a circuit breaker, over temperature cut-out, including visual And audible alerts when undergoing a test procedure.

Housed in a ruggedized pelican case for high impact resistance.



590F



505B