

PRIMARY INJECTION TEST SET

Protective devices such as CT's, overload coils and circuit breakers must be checked regularly to insure that they are always ready to operate correctly. If a fault occurs in the equipment which they are protecting, routine testing will quickly detect the fault or incorrectly adjusted protection circuit and will possibly prevent serious damage to plant or injury to personnel. As well as checking that the protective circuit functions correctly, it is usually necessary to measure its operating time. Micro controller based time interval meter can be equipped with the test set.

Primary Current Injection Test Set are ideal for any application in which it is necessary to supply a low impedance load with a controlled and measured heavy current. The sets are manufactured and supplied as per the customer's requirements. There is a loading Transformer which is designed as the output of the transformer is very low impedance and the high current carrying capacity. The design of the transformer in Primary injection test set decides the duty cycle of the instrument. To supply such kind of loading transformer we need to design the appropriate capacity variable voltage supply. Hence at the end the complete testing instrument run on very low ampere at input side but high current output will be achieved.

The Primary Current Injection Test Set tests all parts of the protection system by injecting current to the cable or bus bars. The application of the primary current injection sets is to ascertain the current carrying capacity of any conductor, insulator, and connector. They are also useful for calibration of CTs, bi-metallic relays etc. These sets are available in single phase, two phase or three phase versions as per the application and suitability of supply at user's end. They are also useful for detection of the heating points of substation bus bars.



FEATURES

- » Built in micro controller based time interval meter can be provided for measuring trip time of relay to be tested.
- » Panel with easy and clear to read legends.
- » Continuously variable output design.
- » Digital ammeters for easy noticeable.
- » Single phase or Three phase electro-technical current generator can be provided.
- » Manual setting of the current injection value through auto-transformer.
- » Duty cycle of any desired requirement could be designed such as 15 Min ON and OFF or Continuously ON or any else.
- » Protected by over current relay if specially demanded.
- » Undistorted sine wave injection current as instruments contains simple electrical circuit.

STANDARD TECHNICAL SPECIFICATIOS

- » Input Supply: 230V \pm 10 %, AC, 1 Phase (Ground must) or 415V \pm 10%, 2Phase or 3Phase any desired could be designed as per demand.
- » Metering: Digital Ammeter, Digital microcontroller based Timer.
- » Indication: Output ON, Output OFF, Mains ON.
- » Current output: secured pins, or copper stem according to capacity of test set.
- » Operations: Contactor controlled push button for output ON/OFF.
- » Protections: Fuse/MCB, over current trip protection as per requirement.
- » Termination: The outputs are brought out on the suitable bus bars.
- » Enclosure: Industrial grade Class Powder coated Aluminum Sheet made Case or MS Powder Coated.
- » Enclosure having caster wheels for easy transportation.

ACCESSORIES

- » Mains Power Cable.
- » High Current Probe Set for Current Injection (on special demand).
- » Probe Set for Connection of CT Secondary if indeed.
- » User's Manual.

APPLICATION AREA

The Instrument is most Suitable for Over Current and Under Current Relays, Current Transformers, Bushings, Circuit Breakers, Power Panels etc.,.

OTHER PRODUCTS

Testing Instruments supports manufacturers, repairers, agency owners and contractor in each Power Sector related industry with a breadth of critical services.

- » Secondary Injection Test Set / Relay Test Set.
- » Oil BDV Test Set.
- » HV Test Set (AC/DC).
- » Transformer Turns Ratio Test Set.
- » Transformer Voltage Ratio Test Set.
- » Load Bank.
- » Transformer Routine Test Set.
- » 3 Pole Breaker Timer.
- » Winding Resistance Test Set.
- » Contact Resistance Test Set.
- » 1phase / 3phase Transformer / Motor testing panel. (Custom built).
- » All Kind of Transformers, Variacs (Auto Transformers) and Inductors.
- » Epoxy Resin cast high volt transformer. (1KV TO 100KV).
- » DC Power Supply.



Our expert Engineering team can effort your any kind of Queries.

"TESTING INSTRUMENTS"

Add: 7, Valam Nagar Soc., Nr. Kshama Soc., A.K.Road, Surat, Gujarat - 395008, INDIA

E-mail: info@testset.in / Web: www.testing-instruments.in

