

# Primary Current Injection Kit

The Motwane make Primary Current Injection Kit (Mot-PIK) is well suited to check the operation of all the components in a circuit breaker including Current Transformer, current sensors, relays and tripping unit performance of circuit breakers.

## Application :-

Motwane make Primary Current Injection Kits are used to test Circuit Breakers, Bus Bars, CTs, Relays, MCBs, MCCBs etc. These are also used for high current injection during commissioning of protection systems and after major repairs and component replacement in power substations.

## Features :

- ⇒ Single compact unit equipment for easy operation .
- ⇒ The kit is designed to offer continuously variable output current.
- ⇒ Built in Digital timer for measuring tripping time.
- ⇒ Digital meter of Accuracy class 0.5% or better and with LED display for displaying input voltage & output currents.
- ⇒ The kit is having adequate MCB protection to protect from overloads.

## Technical Specification

- ⇒ Input power Supply : 220 Volts  $\pm$  10 %, 50HZ AC single phase.
- ⇒ Output Test Current : Refer Table no.1
- ⇒ Output Test Current Range : Refer Table no.1
- ⇒ Burden (Capacity) : Refer Table no.1
- ⇒ Duty Cycle : 10minutes ON - 20minutes OFF
- ⇒ Mode of Operation : Manual or Motorized.
- ⇒ Display /Metering :
  - A Digital Ammeter of 96\*48 mm size having accuracy class 0.5 or better to measure output current .
  - 1 No. Digital Voltmeter 96\*48 mm size with Accuracy class 0.5 or better to measure input voltage.

- Inbuilt digital time interval meter with range from 0.0001sec. to 9999 sec. to measure tripping time.
- ⇒ Protections and Safety:
  - Overload Protection by MCB
  - HRC fuse protection for control circuit.
  - Zero start interlocking.
- ⇒ Indications : Bright LED Indicators are provided for Input and Output Indication.
- ⇒ Cooling: Air/Oil Cooling.
- ⇒ Control: One Knob control to vary Output current.

## Accessories :

- ⇒ Out put cable: One pair of copper flexible cable each of 3 Mts long duly fixed with Heavy Duty Crocodile Clip and Copper lugs or as per customer requirement.
- ⇒ Instruction Manual.
- ⇒ Calibration Report.

## Warranty :

Standard one year warranty against any manufacturing defects.

Table No.1: Rating of Standard Models

Standard Model Name	Out Put Current Rating in Amps	Burden Capacity in KVA
Mot-PIK100/1	0-50-100	1
Mot-PIK300/3	0-150-300	3
Mot-PIK500/5	0-250-500	5
Mot-PIK800/5	0-400-800	5
Mot-PIK1000/5	0-500-1000	5
Mot-PIK 2000/10	0-1000-2000	10
Mot-PIK3000/20	0-1500-3000	20

\*Note: We carry out customization as per customer requirement



DBS/PC/HV-01/Rev-02



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