

PCT-

1000

A compact, rugged primary current injection system with a 1000A output capability

Primary current injection testing is utilised in high current/high voltage scenarios found at large electrical installations such as substations. A large current (between 100A and 20,000A depending on system specifications and test requirements) is injected directly on the primary side of the electrical system such as a circuit breaker. The objective of the test is to identify how the system operates under various levels of current load.

With the PCT-1000, you can also test over-current trip relays attached to a circuit breaker. By injecting the current into the system, we can measure if the breaker will trip or fail, and how long the current is live before the circuit is broken.

Key Features

- Simple and neat panel for easily accessible features and controls
- Portable and suitable for on-site testing.
- Damping design (shock and vibration proof) to ensure reliable transportation.
- The current range can be easily adjusted with a clear display
- Engineered plastic casing, dust-proof and waterproof, IP67 class.
- With wedge-shape air flue to improve heat-dissipation ability
- Accurate measurements: 1A output current and 1V output voltage resolution

Applications

- circuit breakers
- primary injection of over-current relays
- auto-reclosers
- MCB's
- CT ratio (optional with external meter for secondary current)

www.gpslimited.com/PCT1000
For all enquiries, Tel: +44 (0) 208 964 3600
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PRIMARY CURRENT INJECTION TEST SET

Technical Specifications

PCT-1000 Primary Injection Test Set	
Output Current	0-1000A AC in parallel, 0-500A in series mode
Capacity	3KVA
Output voltage	3V in parallel and 6V in Series mode
Input Voltage	220V AC 50Hz, single phase
Adjustment	Current can be adjusted smoothly and continuously, Accuracy level 1.0%
Output Current	Standard sine wave and wave distortion is less than 5% RMS continuously adjustable
Secondary Injection	50A
Timing System	0.001s ~ 999.999s, resolution 1ms, error: 0.005% range ±2digits
Duty Cycle	2.5 mins ON, 10 mins OFF

Standard Accessories

High current 500A output cable 4pcs
 Secondary current cable 1pc
 Ground cable 1pc
 Power cable 1pc
 User guide

General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
PCT-1000	Primary Current Injectio Test Set	681000

Mass

Main unit: 40kg/88lbs approx.
 Accessory box: 5.25kg/11.5lbs approx.

Dimension

Main unit: 470(L)× 370(W)× 380(H)
 Accessory box: 430(L) 350(W) 130(H)

Operating

Temp -15°C - 40°, humidity RH<80%

Services

1-year warranty (subject to product registration with GPS Ltd)
 Please contact for more information.

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