



PCI-600™

The PCI-600 is a programmable high-current source designed specifically for utility-substation applications. This alternating current (AC) test device is best suited for injection testing of protective relays. This versatile device can also be used for testing thermal, magnetic, and solid-state motor-protection relays and molded-case circuit-breakers, as well as any application that requires a high-current source.

PCI-600 Timer Function

The PCI-600's built-in timer can test the time-delay characteristics of protection-relays and molded-case circuit-breakers. Once the test is initiated, the current source and the timer are automatically turned on at the next zero-crossing point of the AC. The timer stops when the PCI-600 input detects a change in the dry contact or voltage input, or detects the removal of the test current. The test results are then displayed in milli-seconds and fractions of a cycle(s) on the unit's back-lit LCD screen (20 characters by 4 lines).

PCI-600 Current Source Functions

Test currents, ranging from 10 to 600 amperes, can be set by using the rotary dial knob on the control panel. The test current is then measured, and the results are displayed on the LCD screen. When the PCI-600 is used as a current source, the current-on time (duration of current flow) is displayed on the LCD screen.

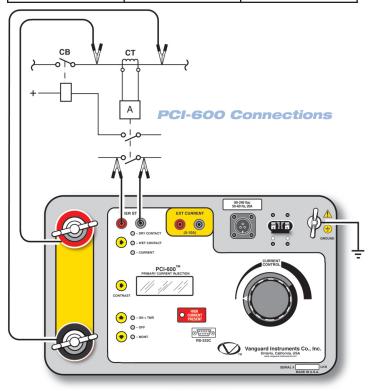
External Current Input Functions

The PCI-600 also has an external-current input $(0-10~{\rm A})$. Both the internal current source amplitude and the external current source measurement readings can be viewed at the same time.

Rapidly

OUTPUT CURRENT TABLE

Output @ 120 Vac	Output @ 240 Vac	Time
5.6 Vac @100 A	9.5 Vac @100 A	1 hour
5.3 Vac @200 A	9.4 Vac @200 A	5 minutes
4.9 Vac @300 A	9.0 Vac @300 A	2 minutes
4.6 Vac @400 A	8.2 Vac @400 A	1 minute
4.2 Vac @500 A	7.5 Vac @500 A	30 seconds
3.9 Vac @600 A	7.0 Vac @600 A	20 seconds



Isolated 10 – 600 ampere AC current source

lest protection system (using primary injection current source

 Tests the time-delay characteristic of protection relays and molded-case circuit-breakers

Measures internal and external currents

• The PCI-600 is thermally protected

Ordering Information

PCI-600 Primary Current Injection Tester

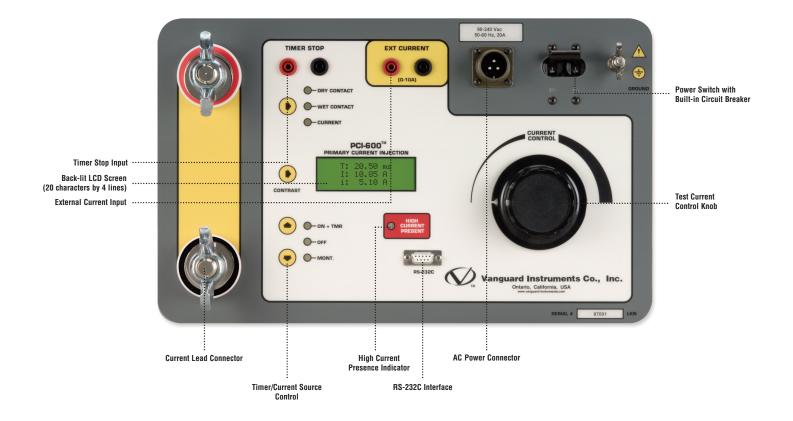
PCI-600 Universal Current Source Part No: PCI-600
PCI-600 Shipping case Part No: PCI-600 case

PCI-600 Test Leads-10 ft Part No: PCI-600 Test Leads-10 ft PCI-600 Test Leads-20 ft Part No: PCI-600 Test Leads-20 ft

Primary Current Injection Tester



Protective Relays, thermal, magnetic and solid state motor-protection relays & molded case circuit breakers



SPECIFICATIONS

TYPE 10 – 600 Amp current source

PHYSICAL SPECIFICATIONS 16.8"W x 12.6"H x 10.6" D (42.6 cm by 32.0 cm by 27 cm); Weight: 46lbs (21kg)

INPUT POWER 100 – 120 Vac or 200 – 240 Vac (factory pre-set), 50/60 Hz

INTERNAL CURRENT METER 100 mA - 1000 A; Accuracy: 1% of reading, ±20 mA

MEASURING METHOD Isolated CT

EXTERNAL METER RANGE 10 mA – 10 A; Accuracy: 1% of reading, ±2 mA

MEASURING METHOD Isolated CT

TIMER READING RANGE 1 ms – 2 hours; Accuracy: 0.1% of reading ±1ms

TIMER STOP INPUT Voltage input (24 – 300 V, DC or peak AC), dry-contact input, or removal of primary current

COMPUTER INTERFACE RS-232C port (19,200 baud) for factory calibration and diagnostics

SAFETY Designed to meet IEC61010 (1995), UL 61010A-1, CSA-C22.2 standards

ENVIRONMENT Operating: -10°C to 50° C (15°F to +122° F); Storage: -30° C to 70° C (-22°F to +158° F)

CABLES 10-foot #1/0 AWG test leads, power cord, ground cable

OPTIONS Transportation case

WARRANTY One year on parts and labor

Note: The above specifications are valid at nominal voltage and ambient temperature of +25°C (+77°F). Specifications are subject to change without notice.

