



PCI-600

Precisión a bajo coste

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.

600 Timer Function

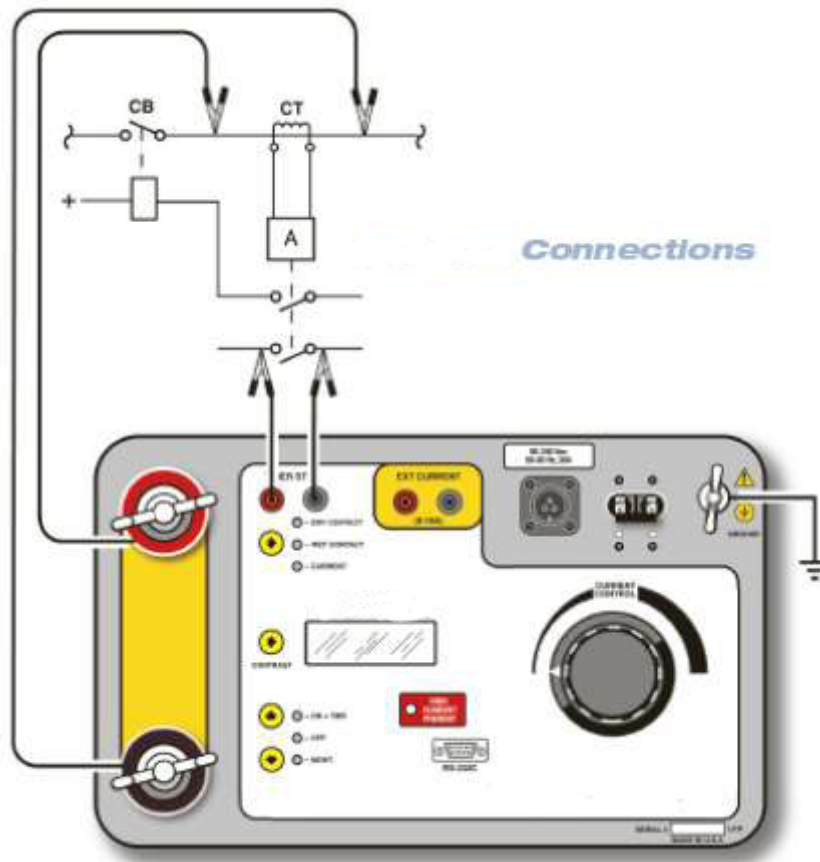
The PCI-600's built-in timer can test the time-delay characteristics of protection relays and molded-case circuit-breakers. Once the test is initiated, the current source and the timer are automatically turned on at the next zero-crossing point of the AC. The timer stops when the PCI-600 input detects 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).

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 A). Both the internal current source amplitude and the external current source measurement readings can be viewed at the same time.



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

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)
HUMIDITY	90% RH @ 40°C (104°F) non-condensing
ALTITUDE	2,000m (6,562 ft) to full safety specifications
CABLES	10-foot #1/0 AWG test leads, power cord, ground cable
OPTIONS	Transportation case
WARRANTY	One year on parts and labor