APCI-600

HIGHEST ACCURACY & LOWEST COST

Primary Current Injection Source

APCI-600

AC high-current source 10 to 600 A
Testing Molded-Case Circuit Breakers
Testing Thermal, Magnetic, Or Solid-State Relays
Built-in Timer

amperis

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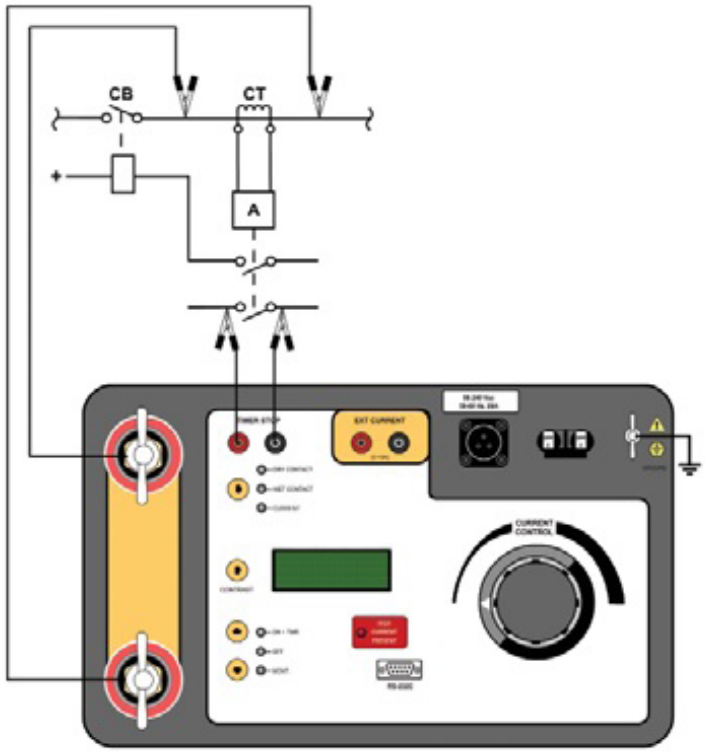
EThe APCI-600 is a programmable AC high-current source designed specifically for utility-substation applications. This device is well suited for primary injection testing of protective relays. This versatile device can also be used for testing thermal, magnetic, and solid-state motor-protection relays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

APCI-600 Connections



Built-in Timer

The APCI-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 APCI-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).

External Current Input

The APCI-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.

Current Source

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 APCI-600 is used as a current source, the current-on time (duration of current flow) is displayed on the LCD screen.

APCI-600 Output Current and Duration Table

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

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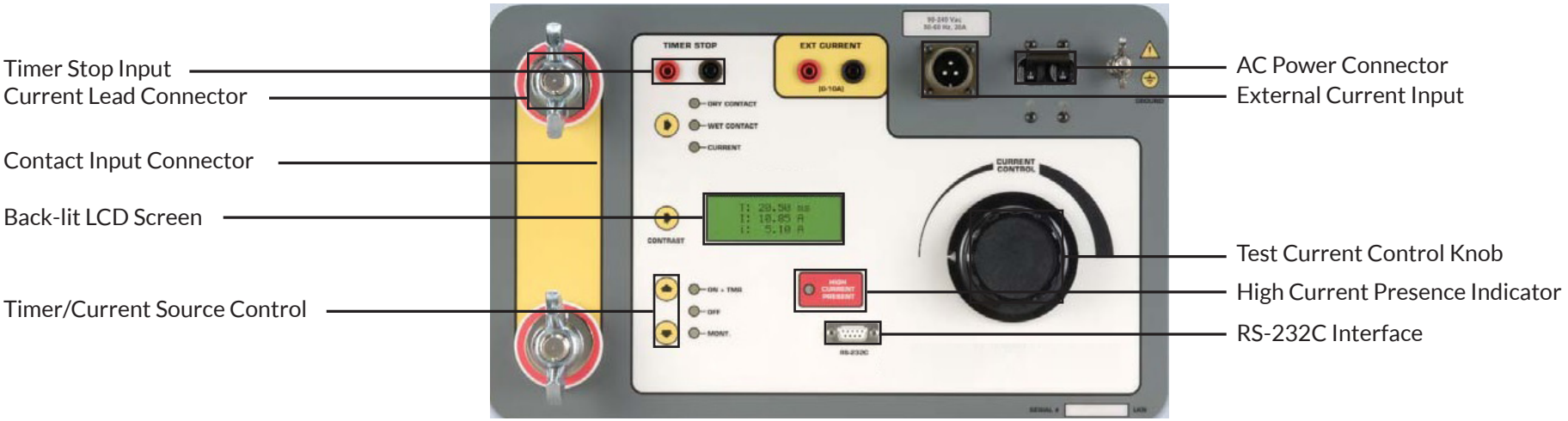
APCI-600's Controls



APCI-600's Specifications

Type	10 - 600 Amp current source
Physical specifications	17"W x 12½"H x 10½"D, (42.6 cm x 32 cm x 27 cm); Weight: 46 lbs (21 kg)
Input power	100 - 120 Vac or 200 - 240 Vac (factory pre-set), 50/60 Hz
Internal meter range	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 ±1 ms
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	2,000 m (6,562 ft) to full safety specifications
Included Accessories	10-foot #1/0 AWG test leads, power cord, ground cable
Optional accessories	Transportation case
Warranty	1 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.

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