Test Systems / GR-1089-UL1950 Overvoltage Test System

PT-600

FAST SAFE RELIABLE

60Hz 600V Telephone Overvoltage Simulator

FEATURES

- Simulates contact between a power system primary and a telecommunications cable.
- Simulates long duration induction as a result of a power system fault to earth.
- Simulates short term induction as a result of a power system primary fault to a multi-earth neutral.
- Performs GR-1089 1st & 2nd Level AC power fault tests.
- Performs UL 1950 Annex NAC powerline cross overvoltage tests.
- Performs ITU-T Power Induction and Earth Potential tests.
- Performs common mode (longitudinal) and differential mode (metallic) overvoltage tests.
- Adjustable source impedance.
- 40 and 60 amp per channel models.
- Single and dual channel models for 2 and 4 wire testing.
- Preset and variable test times.
- 0-volt or random switching.
- Operate from computer or front panel.
- Self contained in standard rack cabinet.
- 1 year warranty.

The blue box that tests. And tests.

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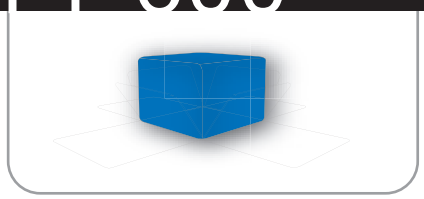
866-327-8731 www.techniCAL-sys.com

PT-600



ELECTRICAL

The PT-600 is designed to perform power cross tests in accordance with GR-1089 and UL 1950. ITU-T Power Induction and Earth Potential Rise tests are also available. This is a list of outputs available with our PT-600-480-2-60 (480V in, 2 - 60A channels out). Outputs may be added or deleted upon request.

BLUE AREA: Output Voltage and Current
0-600V, 10 Ohm source impedance, up to 60A; 2 channels, 5 sec. max.
0-600V, 15 Ohm source impedance, up to 40A; 2 channels, 5 sec. max.
0-600V, 20 Ohm source impedance, up to 30A; 2 channels, 5 sec. max.
0-600V, 85.7 Ohm source impedance, up to 7A; 2 channels, 5 sec. max.
0-600V, 120 Ohm source impedance, up to 5A; 2 channels, continuous duty
0-300V, 15 Ohm source impedance, up to 20A; 2 channels, continuous duty
0-277V, 11.1 Ohm source impedance, up to 25A; 2 channels, continuous duty
0-277V, 13.8 Ohm source impedance, up to 20A; 2 channels, continuous duty
0-230V, 10 Ohm source impedance, up to 23A; 2 channels, continuous duty
0-230V, 20 Ohm source impedance, up to 11.5A; 2 channels, continuous duty
0-230V, 40 Ohm source impedance, up to 5.8A; 2 channels, continuous duty
0-230V, 80 Ohm source impedance, up to 2.9A; 2 channels, continuous duty
0-120V, 8.4 Ohm source impedance, up to 25A; 2 channels, continuous duty
0-600V, 90-272 Ohm source impedance continuously variable, up to 2.2A continuous or 3A for one sec., 2 channels, continuous duty
0-600V, 272-440 Ohm source impedance continuously variable, up to 600V, 2 channels, continuous duty
0-600V, 440-2390 Ohms source impedance continuously variable, up to 600V, 2 channels, continuous duty
0-600V, 2350-13.6Kohm source impedance, continuously variable, up to 600V, 2 channels, continuous duty
0-600V, 2 Ohm source impedance, up to 300A; 2 channels, 0.5 sec. max. (must be used in conjunction with Line Simulator Fuse adjacent)

YELLOW AREA (First Level AC Power Fault): Output Voltage and Current
0-1000V, 1Kohm source impedance, up to 1A; 4 channels, continuous duty
0-1000V, 200 ohm source impedance, up to 5A; 4 channels, 0.5 sec. max.

VIOLET AREA: (High Impedance Inductive Source Test): Output voltage and current
0-600V, In accordance with GR-1089, Third Edition, Table 4-7 Test 5 and Table 4-8 Test 5.
Circuit as shown in GR-1089, Third Edition, Figure 4-4.
Supplied with outputs VT and VR.
Sensing Points:
Sense points V and V'; VT and VR in accordance with GR-1089, Third Edition, Figure 4-4.

GENERAL

Input Power Requirements:	480V, 2 conductor + ground, 50/60Hz, 150A (100A service / fusing OK)
Weight:	800 lbs. approx.
Dimensions:	31 in. (W) x 82 in. (H) x 27 in. (D) (subject to change)

OPTIONS AND OPERATION

Option TMP	Computer operation with repetitive pulse capability.
Option ITUT	ITU-T Power Induction and Earth Potential Rise Tests.
Option FT	GR-1089 Iss. 3 Caluse 4.6.11: 15 minute operation.

Note: 2nd Level AC Power Fault Test with external Protector
Tests 4, 5 and 6 cannot be performed with the PT-600.

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