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PTE111




# PTE111
# Programmable Load Simulator

## Features

- Resistive, Inductive, and Capacitive Load
- Six channel multiplexer
- Software controlled via RS-232 interface
- LED active channel indicator
- 10A capacity per channel
- Windows compatible DLL
- Soft Front Panel

## Summary

The model PTE111 programmable resistive, inductive, capacitive load simulator simulates various loads to support testing. The load can be switched to one of six output channels via an on board multiplexer, or all channels off. For special situations, channels can be shorted together as well.

The basic device supports programmable resistance, and enable/disable for inductance and capacitance. However, each unit can easily be tailored to the customer's specific requirements. There are 10 programmable levels, each of which can support a resistor, inductor, or capacitor. Some sample configurations achievable:

**Sample Configuration One:**

| | |
|---|---|
| Resistance: | 1-4 Ohms in 1 Ohm steps |
| Capacitance: | 100 uF to 400 uF in 100 uF steps |
| Inductance: | 10 uH to 20 uF in 10 uH steps |

**Sample Configuration Two:**

| | |
|---|---|
| Resistance: | 10-20 Ohms in 10 Ohms steps |
| Capacitance: | 1 uF to 2 uF in 1uF steps |
| Inductance: | 100 uH to 400 uF in 100 uH steps |

In addition to each of the values, an off (tristate) condition is also supported.

## Specifications

**Load:**

| | |
|---|---|
| Types: | Resistance, Capacitance, Inductance |
| Values: | Customer Specified Values |
| Current: | 10A Max |
| Power: | 250W Continuous |

**Program Interface:**

RS-232 @ 9600 Baud

**Power Requirements:**

115VAC @ 2A External Power Supply

**Mechanical:**

| | |
|---|---|
| Form Factor: | 2HU Rackmount |
| Dimensions: | 3.5"Hx19.0"Wx12.0"D |
| Program Connector: | RJ11 |
| I/O Connectors: | Standard Banana Jacks |

**Environmental:**

| | |
|---|---|
| Operating: | Temperature: 0°C to +45°C<br>Humidity: 5 to 90% @ 40°C<br>Non-Condensing |
| Storage/Transit: | Temperature: -25°C to +70°C<br>Humidity: 5 to 50% @ 40°C<br>Non-Condensing |
| Altitude: | 10,000 ft above sea level |

## Ordering Information

| | |
|---|---|
| Part Number: | 301-1100 |
| Includes: | Unit, Power Supply, Windows DLL, Soft Panel |

Consult factory for: Custom configurations.



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