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4001 Go

# PI-5800A Data Generator

General Info. Specifications Ordering Info.

**Please note our 5800A has been discontinued. We are no longer accepting new orders. All information contained herein is for informational purposes only.**

## Specifications

### Output Characteristics*:

- **Pulse Duration: 20nsec minimum NRZ 10 ns minimum RZ**
- **Fan Out: 4 TTL loads minimum for duration ≥ 20 ns**
- **Skew: 3ns maximum between any 2 channels on the same 16 channel card**
- **Rise and Fall Time: ≤ 6ns into 1MΩ|| 15pf and ≤ 4.0ns into 50Ω**
- **High Level: 4.5V/5.5V into 1MΩ|| 15pf and > 2.2V into 50Ω**
- **Low Level: < 0.6V into 1MΩ|| 15 pf and < 0.3V into 50Ω**
- **High Impedance:**
  **Disable Time:[2] t phz ≤ 18ns, t plz ≤ 18ns**
  **Enable Time: [2] t pzh ≤ 25ns, t pzl ≤ 25ns**
  **Set-up Time: ≥ 20ns**

### Input Characteristics:

- **External Clock A: TTL compatible, 2.4V, 10ns pulse width minimum required**
- **External Clock B: TTL compatible, to be driven by cascading clock output only**
- **External Halt: TTL compatible, 2.4V, 20ns pulse width minimum required. Positive going or negative going slope selectable by rear panel mounted switch**

### Trigger Output Characteristics:

**Trigger: TTL compatible. Fan Out = 2 TTL load**

### General:

- **Internal Clock Frequency: 1kHz to 50 MHz in 20ns increments**
- **Instruction Memory Depth: 256 per program, up to 1000 lines**
- **Display: 7" CRT, 80 characters per line**
- **Memory: 4096 bits per channel**
- **Compatibility: IEEE-488 GPIB, RS-232-C**
- **Power: 110 VAC ± 10%, 8 amps max. 47/63 Hz and 220 VAC ± 10%, 4 amps max. 47/63 Hz**
- **Dimensions: 10.5" H x 17.5" W x 23.75" D**
- **Weight: 49-55 lbs. net**
- **Operating Temperature: 0 C to 50 C**
- **Warranty: One year parts and labor from date of shipment**



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