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## **Data Precision Data 6100 Digital Signal Analyzer with Model 620 Plug-in**

### **Data Precision Data 6000 Series waveform acquisition, display, and digital analysis system.**

The signal analyzer has the following specifications:

- CPU: 16 bit, 8Mhz clock speed
- ROM: 48 Kbytes; expandable to 96 Kbytes
- Display: 9 inch CRT
- Screen Resolution: 512 x 1024 lines
- Intensity Levels: Record, Fill, Cursor
- Data format: 16-bit integer, 32-bit real scale.
- Data records: 64K data points.
- Chaining: Up to 8 operations can be chained
- Ensemble Averaging Operations: 1 to 10,000 sweeps
- Exponential Decay Operations: 1 to 0.0001 weighted running average
- Maximum and Minimum Envelope
- Remote Controllable via RS232 or GPIB

Display:

- 1 Single Trace (Full Screen)
- 2 Separate Traces (Half screen per trace)
- 2 traces overlaid (full screen)
- Grid: 10 x 10 field of dots; unit/div are independently adjustable
- Crosshair: 3 Modes: Center, Origin, and Trigger
- Cursor: Denotes X units interval

### Trace Expansion:

- X: x1, x2, x4, x8, x16, x32, x64, x100
- Y: Coarse Steps: x1, x2, x4, x8, x16, x32, x64, x100, x128, x256, x512, x0.0, x0.5
- Trace position: Any displayed point
- One independently adjustable baseline for each trace.

### Record Operations:

- assign
- delete
- add
- subtract
- multiply
- divide
- spectrum magnitude plus phase
- cross-correlation
- auto-correlation
- differentiation
- integration
- n-point convolution (averaging)

### Interfaces:

- RS232
- IEEE488 GPIB
- X-Y plotter
- PLOT-10 Plotter





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