Table 1-1. Specifications

Measurement Configurations

	STATE	TIMING
1630A:	35	0
	0	8
	27	8
1630D:	43	0
	0	16
	35	8
	27	16
1630G:	65	0
	0	8
	57	8

Note: Number of timing channels halved in Glitch mode.

Measurement Functions

Memory

Data Acquisition:	1024 words.
Compare:	16 words (1630A/D, 1630G in **[**Edit Compare**]** mode). Entire trace for 1630G in **[**Full Compare**]** mode.
Search:	Memory may be searched for any pattern defined within a label set. All pattern matches in memory may be marked or separately displayed.

Input Specifications

Clock repetition rate

Single Phase:	25 MHz with single clock and single edge specified. 20 MHz with any ORed combination of clocks and edges.
Multiplexed:	Master Slave clock timing. Master clock must follow slave clock by at least 10 ns and precede next slave clock by 50 ns or more.
Clock Pulse Width:	≥10 ns at threshold.
RC:	100 kilohms ±2% shunted by approx 5 pF at probe body.
Setup time:	time data must be present prior to clock transition, ≥20 ns.
Hold time:	time data must be present after clock transition, 0 ns.
Minimum swing:	600 mV p-p.
Minimum input overdrive:	250 mV or 30% of input amplitude, whichever is greater.
Maximum voltage:	±40 volts, peak.
Threshold Range:	−9.9 volts to +9.9 volts in 0.1-volt increments. Accuracy 2.5% ±120 mV.
Dynamic Range:	±10 volts about threshold.
Skew:	Between channels in one pod: ≤6 ns. Between channels in different pods: ≤10 ns. (These specifications are true for input signal, VH=−1.0V, VL=−1.6V, VTH at −1.3V, slew rate greater than 0.25 V/ns.)
	Glitch: With glitch detection on, number of timing channels are halved. Minimum detectable glitch: 5 nsec width at threshold.

Table 1-1. Specifications (Cont'd)

Operating environment

Temperature:	0° to 55° C (32° to 131° F), 20° to 30° C recommended.
Humidity:	up to 95% relative humidity at +40° C, 40% to 80% relative humidity recommended.
Altitude:	to 4600 m (15,000 ft).
Vibration:	vibrated in three planes for 15 min. each with 0.3 mm excursions, 5 to 55 Hz.
Dimensions:	dimensions are for general information only. If dimensions are required for building special enclosures, contact your HP field engineer. Dimensions are in millimetres and (inches).