DC CHARACTERISTICS		
RESO- ± (%rdg+offset)		Specifications/194
INPUT IMPEDANCE: 1.1M0 (1.0M0 < 47pF. MAXIMUM ALLOWABLE INPUT: 2: MAXIMUM COMMON MODE VOI 5×10*V•Hz. COMMON MODE REJECTION RATI unbalance. DIFFERENTIAL NONLINEARITY: 16- TEMPERATURE COEFFICIENT (0°-1 applicable accuracy specification)/°C	50V peak, 2×10 ⁷ V•Hz. LTAGE: 30V rms, 42V peak, IO: >60dB at dc to 1kHz, 1kΩ Bit: ≤2 LSB. 8 Bit: ≤0.5 LSB. 8°C & 28°-50°C): < ±(0.1 ×	MATH FUNCTIONS Solid Property Peak to Peak: Difference between maximum and of samples. PLUS PEAK: Maximum value of samples.
DYNAMIC CHARACTERISTICS		MINUS PEAK: Minimum value of samples.
Minimum Sample Rate 10 Maximum Sample Rate Sample Rate Resolution Number of Samples Sample Interval Accuracy (typical, excluding time base accuracy)	16 BIT 8 BIT μs (100kHz) 1μs (1MHz) 1s 1s 100ns 100ns 1 to 32k 1 to 65k 0.4ns 2ns	STANDARD DEVIATION: $\sqrt{\frac{\sum\limits_{i=0}^{n-1}(V_i-V_i)}{n}}$ TRUE ROOT MEAN SQUARE: $\sqrt{\frac{\sum\limits_{i=0}^{n-1}(V_i-V_i)}{n}}$
SIGNAL/NOISE RATIO: 50dB for ful SLEW RATE: 13V/µs minimum. SETTLING TIME: 1 µs to 0.1% of fin CHANNEL CROSSTALK: <60dB at INPUT COUPLING: Ac, dc, ground. FREQUENCY RESPONSE (Filter Off 0.2dB 1dB dc (15Hz) - 20kHz dc (5Hz) - 200 () Indicates ac coupled performance LOW PASS FILTER: 50kHz, 500kHz,	nal value. 500kHz.): 3dB 0kHz dc (2Hz) - 750kHz e.	INTEGRAL: (½V ₀ +½V _{n-1} + $\sum_{i=1}^{n-2}$ V _i) t _i . DIFFERENCE: Channel 1 - Channel 2. RATIO: Channel 1 / Channel 2. V _i : Voltage of sample i. n: Total number of samples. i: Location of individual sample. t _i : Sample interval.
		ANALOG OUTPUT
range and External: Negative TTI Front Panel: Manual push IEEE-486 Interface: 16 programm Other Channel: Internally ge	ode; -65k < n <-1, 8-bit mode. riggering. begins "n" samples after trig- ON able over input voltage resolution. L. edge. abutton. nable trigger modes. nerated.	MODES OUTPUTS USED CRT x, y, z (blanking) Oscilloscope y, z (trigger) Slow Plot x, y, z (pen up/down) Strip Chart y X OUTPUT: 0-10V full scale, 2.44mV resolution. Y OUTPUT: 0-10V full scale, 2.44mV resolution. Z OUTPUT: 0V, 5V or 15V. ZOOM MAGNIFICATION: 0.1:1 to 1000:1. PAN: Across entire memory.
TIMEBASE: Internal: 10MHz ±0.029 External: 10MHz nomina		PG.10=2

naximum and minimum values

CHANNEL 2 (Option 1944)

Permits synchronous data sampling. Specifications are identical to those of Channel 1. All Channel 2 measurement parameters are independently selectable.

REAL TIME (DMA) OUTPUT

FORMAT: Binary, 16-bit or 8-bit.

RATE: Same as Sample Rate.

FRONT PANEL PROGRAMS

NVRAM.

0 IEEE ADDRESS: Set IEEE address. 1 SELF TEST: Performs internal RAM and ROM check. 2 DIGITAL CALIBRATION: Executes calibration procedure.

3 CALIBRATION STORAGE: Stores calibration constants in

4 X OUTPUT FULL SCALE: Sets full scale X output voltage.

5 Y OUTPUT FULL SCALE: Sets full scale Y output voltage. 6 Z OUTPUT BLANKING LEVEL: Sets high or low blanking level.

GENERAL

upon request.

Channel unit.

DISPLAY: Fourteen-digit alphanumeric LED display. Function and IEEE bus status also displayed.

CONTROL LINES: End of Sample, Overrun, High Byte, Low Byte.

POWER: 105-125V or 210-250V (internal switch selectable), 50Hz or

CONNECTORS: All I/O connectors are BNC except Real Time Out-

DIMENSIONS, WEIGHT: 89mm high × 435mm wide × 448mm deep (3½ in. × 17½ in. × 17½ in.). Net weight 9.1kg (20 lbs.), Dual

60Hz, 120VA maximum, 90-110V and 180-220V version available

RANGING: Manual or autoranging. WARMUP: One hour to rated accuracy.

OPERATING ENVIRONMENT: 0° to 50°C, 0% to 80% relative humidity up to 35°C. STORAGE ENVIRONMENT: -25° to 65°C.

Model 1938: Fixed Rack Mounting Kit Model 1939: Slide Rack Mounting Kit Model 1944: Channel 2 Model 7007-1: Shielded IEEE-488 Cable, 1m (3.2 ft.)

ACCESSORIES AVAILABLE:

put (DB-25) and IEEE-488 connectors.

Model 7007-2: Shielded IEEE-488 Cable, 2m (6.5 ft.) Model 7051-2: BNC Interconnect Cable, 2 ft. Model 7051-5: BNC Interconnect Cable, 5 ft. Model 7754-3: BNC to Alligator Cable, 3 ft. Model 7755: 500 Feed-Through Termination Model 8573A: IEEE-488 Interface for IBM PC, PC-AT

Model 194 High Speed Voltmeter. Prices and specifications subject to change without notice.

MULTILINE COMMANDS: DCL, LLO, SDC, GET, GTL, UNT,

IEEE-488 BUS IMPLEMENTATION

UNL, SPE, SPD, MLA, MTA.

UNILINE COMMANDS: IFC, REN, EQI, SRQ, ATN. INTERFACE FUNCTIONS: SH1, AH1, T6, TE0, L4, LE0, SR1, RL1, PP0, DC1, DT1, C0, E1.

PROGRAMMABLE PARAMETERS: Range, Math Functions, Zero, Delay, Sample Rate, Number of Samples, Trigger, Calibration, Output Format, Self Test, Display, Status, Service Request, Storage, Filter, Terminator, Input Coupling, Buffer Size, Channel, Save and Recall Setups, Front Panel Programs 1-6, Key Sequence, Slope,

Analog Outputs, EOI. BINARY TRANSFER RATE: 90k bytes/second.

Pla. 2 NEZ