RANGE	MAXIMUM OUTPUT	ACCURACY (1 YEAR) 18°-28°C	STEP SIZE	TEMPERATURE COEFFICIENT/°C 0°-18°C & 28°-50°C
100 V	± 101.00 V	0.05 % + 50mV	50mV	0.005% + 0.5mV
10 V	± 19.995 V	0.05 % + 10mV	5mV	0.005% + 100 µV
1 V	± 1.9995 V	0.05 % + 1mV	500 µV	0.005% + 25 µV
100mV	± 199.9 mV	0.075% + 300 µV	50 µV	0.01 % + 25 µV

MAXIMUM CURRENT LIMIT: ± 100mA (−0, +20%).

SELECTABLE CURRENT LIMIT:

± 100mA (-0, +20%), ± 20mA (-5, +20%), ± 2mA (± 20%) up to ± 50V on output. At higher voltages subtract 15% from 2mA range lower limit.

LINE REGULATION: Less than 0.01% for AC power line changes within specified limits.

NOISE: (150 µV + 50ppm range) p-p, 0.1Hz to 300Hz; 5mV p-p, 0.1Hz to 300KHz. Specification applies for local sensing only, TYPICAL.

RESPONSE TIME: Less than 3ms to within 0.1% of programmed change for Current Limit of at least 20mA.

TRANSIENT RECOVERY TIME: Less than 3ms to rated accuracy for Current Limit of at least 20mA.

OUTPUT IMPEDANCE:

SELECTED CURRENT LIMIT	OUTPUT IMPEDANCE
2mA	1mΩ + 10mH
20mA	1mΩ + 2mH
100mA	1mΩ + 1mH

OUTPUT LOAD: Output load must remain INDUCTIVE LOAD PROTECTION

SENSING: Rear panel switch selectable REMOTE and LOCAL SENSING.

REMOTE SENSING: Maximum Lead Drop: 0.5V. **Maximum Sense Lead Resistance:** 5Ω. SPECIFICATIONS ARE PER LEAD.

PROGRAM MEMORY: Number of Locations: 100. Range of Dwell Times: 3 ms to 999.9s. Accuracy of dwell times: ± (0.05% + 200µs).

EXTERNAL TRIGGER: TTL-compatible EXTERNAL TRIGGER INPUT and OUTPUT.

OUTPUT CONNECTIONS: Five-way binding posts for OUTPUT, OUTPUT SENSE, COMMON, COMMON SENSE, CHASSIS and BNC (chassis isolated) connectors for EXTERNAL TRIGGER INPUT and OUTPUT. All connections on rear panel.

IEEE-488 BUS IMPLEMENTATION (220 and 230)

Multiline Commands: DCL, LLO, SDC, GET, GTL, UNT, UNL, SPE, SPD.

Uniline Commands: IFC, REN, EOI, SRQ, ATN.

Interface Functions: SH1, AH1, T6, TE0, L4, LE0, SR1, RL1, PP0, DC1, DT1, C0, E1.

Internal Programmable Parameters: DISPLAY MODE, OUTPUT, Prefix (Data Format), EOI, SRQ (including mask for over I-LIMIT), PROGRAM MODE, Range, Trigger Mode, Terminator Character, Inputs (SOURCE, I-LIMIT, DWELL TIME, 100-Point Memory Locations), Output Status, Digital Self Test.

Digital I/O Port: A separate I/O port consisting of four input and four output lines as well as common (IEEE-488) and +5VDC. Outputs will drive one TTL load. Inputs represent one TTL load. The 220 and 230 can be programmed to generate an "SRQ" upon *any* change in the four bit input data. MATING CONNECTOR SUPPLIED.

GENERAL

DISPLAY: 0.5" LED digits, 4½-digit signed mantissa, 1-digit signed exponent.

SYSTEMS COMPATIBILITY: IEEE-488-1978.

OVER LIMIT INDICATION: "I-LIMIT" LED will blink.

SELF TEST: Digital RAM, ROM, and front panel LEDs upon power ON.

WARMUP: 1 hour to rated accuracy.

POWER: 105-125 or 210-250VAC (internal switch selected), 50 or 60Hz, 60 watts maximum (80VA maximum). 90-105 or 180-210VAC operation available.

COOLING: Internal fan for forced air cooling.

ENVIRONMENTAL LIMITS: Operating: 0°-50°C; up to 35°C at 70% non-condensing relative humidity. **Storage:** −25° to 70°C.

DIMENSIONS, WEIGHT: 127mm high × 216mm wide × 359mm deep (5"H × 8½" × 14⅛"). Net weight 4.39kg (9 lbs. 11 oz.).

MAXIMUM ALLOWABLE COMMON MODE VOLTAGE (OUTPUT or OUTPUT COMMON to CHASSIS): 250V rms, DC to 60 Hz.

ACCESSORIES AVAILABLE:

Model 1019A: Universal Rack Mounting Kit
Model 1019S: Universal Rack Mounting Kit (slides)
Model 7008-3: IEEE-488 Cable (3 ft.)
Model 7008-6: IEEE-488 Cable (6 ft.)