

## DC VOLTS

| Range  | 5½-digit Resolution | Accuracy<br>±(%rdg + digits) |               | Temperature Coefficient<br>±(%rdg + digits)/°C<br>0-18°C & 28-35°C | Input Resistance | Maximum Allowable Input | NMRR (Line Frequency) |
|--------|---------------------|------------------------------|---------------|--|------------------|-------------------------|-----------------------|
|        |                     | 24 Hr. 22-24°C               | 1 Yr. 18-28°C |  |                  |                         |                       |
| 2mV    | 10 nV               | .006% + 5d*                  | .015% + 5d*   | .002% + 3d   | > 1GΩ            | 120V**                  | > 90dB                |
| 20mV   | 100 nV              | .006% + 2d*                  | .015% + 2d*   | .002% + .5d  | > 1GΩ            | 120V**                  | > 80dB                |
| 200mV  | 1 μV                | .006% + 2d                   | .015% + 2d    | .002% + .2d  | > 1GΩ            | 120V**                  | > 80dB                |
| 2 V    | 10 μV               | .004% + 1.5d                 | .007% + 2d    | .0007% + .2d   | > 1GΩ            | 1000V                   | > 60dB                |
| 20 V   | 100 μV              | .004% + 1.5d                 | .01% + 2d     | .0008% + .2d   | 10MΩ             | 1000V                   | > 60dB                |
| 200 V  | 1mV                 | .004% + 1.5d                 | .01% + 2d     | .0008% + .2d   | 10MΩ             | 1000V                   | > 60dB                |
| 1000 V | 10mV                | .005% + 1.5d                 | .01% + 2d     | .0012% + .2d   | 10MΩ             | 1000V                   | > 60dB                |

\*When properly zeroed.

\*\*10 seconds maximum; 35V rms continuous.

CMRR: 160dB on mV ranges, 140dB on V ranges; at DC and line frequency (50 or 60Hz).

### IEEE-488 BUS IMPLEMENTATION:

Multiline Commands: DCL, LLO, SDC, GET.

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

### PROGRAMMABLE PARAMETERS:

Front Panel Controls: Range, Filter, Zero, Damping, Hi Resolution.

Internal Parameters: SRQ Response, Trigger Modes, Data Terminators.

ADDRESS MODES: Talk-Only and Addressable.

### TRIGGER MODES:

One Shot: Updates output buffer once at first valid conversion after trigger on TALK and/or GET.

Continuous: Updates output buffer at all valid conversions after trigger.

### GENERAL

NOISE: Less than 30nV p-p on lowest range with Filter on.

INPUT CAPACITANCE: 5000pF on mV ranges.

SETTLING TIME: 0.5 sec. to within 25 digits of final reading with Filter on, Damping off.

FILTER: 3-pole digital; RC = .5, 1 or 2 seconds depending on range.

CONVERSION SPEED: 4 readings/second.

DISPLAY: Seven 13mm (0.5 in.) LED digits with appropriate decimal point and polarity.

OVERLOAD INDICATION: Display indicates polarity and OFLO.

### ANALOG OUTPUT:

Accuracy: ±(.15% of displayed reading + 1mV).

Time Constant: 400ms.

Level: ±2V full scale on all ranges; X1 or X1000 gain.

ISOLATION: Input LO to Output LO or power line ground: 1400V peak,  $5 \times 10^2 \text{V} \cdot \text{Hz}$ , greater than  $10^9 \Omega$  paralleled by 1500pF

WARMUP: 1 hour to rated accuracy when properly zeroed.

### ENVIRONMENTAL LIMITS:

Operating: 0°C to 35°C, 0% to 80% relative humidity.

Storage: -25°C to 65°C.

POWER: 105-125V or 210-250V (internal switch selected), 50-60Hz, 30V•A max.

INPUT CONNECTORS: Special low thermal for 200mV and lower ranges. Binding posts for 2V to 1000V ranges.

DIMENSIONS, WEIGHT: 127mm high × 216mm wide × 359mm deep (5" × 8½" × 14⅛"). Net weight 3.85kg (8½ lbs.).

ACCESSORY SUPPLIED: Model 1506 Low Thermal Input Cable.

### ACCESSORIES AVAILABLE:

Model 1483 Low Thermal Connection Kit

Model 1484 Refill Kit for 1483 Kit

Model 1485 Female Low Thermal Input Connector

Model 1486 Male Low Thermal Input Connector

Model 1488 Low Thermal Shorting Plug

Model 1503 Low Thermal Solder and Flux

Model 1506 Low Thermal Input Cable (4 ft., Clips)

Model 1507 Low Thermal Input Cable (4 ft., Lugs)

Model 1815 Maintenance Kit

Prices and specifications subject to change without notice.