

**TRUE RMS AC VOLTS & AMPS INPUT DPM,
3½ & 4½ DIGIT**

- RS232/422 • Peak & Hold • 3-State BCD • Digital Limit
- Excitation/Compliance • Analog Output • PC Compatible

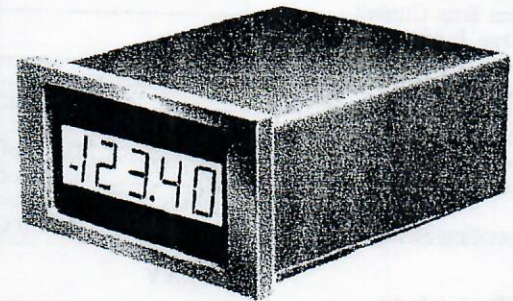
**MODEL
208**



LED

FEATURES

- DC to 50KHz, Sine, Triangular, SCR, Square, Pulsed, Input
- Measures Ripple on DC Level
- 1/8 DIN & NEMA Compatible Cut-Out
- 3½, 4½ Digit LED & LCD Display with/wo Dummy Digit
- 7 Power Inputs
- MTBFC: 100,000 Hours



LCD

TRUE RMS AC

DESCRIPTION: The Model 208 contains a monolithic RMS-DC converter that converts virtually any input signal to a 0-2VDC equivalent for the 4½ digit A/D. Applications of the 208 are in rectifiers, transformers, generators and more. Ripple measurement is as simple as adding a blocking capacitor in series with the "high" input. Current transformers, or shunts are directly connected.

CONNECTOR(S): A standard screw type connector for power and signal input is used. The I/O ports (top board) have industry standard flat cable connectors according to the function. All mating connectors are supplied at no charge.

DISPLAY: High efficiency ±3½, ±4½ digit LED, with or without dummy digit or its LCD high contrast low power equivalent. Dummy digit is programmable as a x10 multiplier or alpha A, C, F, H, E, L, P, etc.

INPUT RANGES: Industry's most popular ranges are standard. Contact Otek for special input ranges or scaling.

EXCITATION (COMPLIANCE) AND ANALOG CONTROL

OUTPUTS: The most popular combinations to match transducers are available, see Specifications & Ordering Information. The 4-20mA outputs are ideal for **Proportional Control**.

DIGITAL CONTROL OUTPUT OPTIONS

- Option 1:BCD PARALLEL TRISTATE NON-ISOLATED, TTL compatible, bit addressable, with a 34 Pin Flat Ribbon connector.
- Option 2:BCD PARALLEL TRISTATE OPTO-ISOLATED to 1500VDC, TTL compatible bit addressable, with a 34 Pin Flat Ribbon connector.
- Option 3:DIGITAL PEAK & HOLD WITH RECALL holds and recalls the greatest positive and negative peak when enabled, otherwise it displays current data. A 34 Pin Flat Ribbon connector is included.
- Option 4: DIGITAL LIMIT compares internal BCD data to an external BCD word (Multiplex Format) from Thumbwheel Switches or any TTL source. Its two 1 amp SPDT relays (for over and under) control external loads. It is field programmable for hysteresis of 10 or 100 counts. A 34 Pin Flat Ribbon connector is supplied.
- Option 5:RS232C converts the "ULTIMA 200" to a data acquisition system. Up to 32 stations and baud rates from 150-19,200. See Model A81-2450.

Option 6:RS422 This is the high-speed, longer distance version of RS232C with same features, see Section 7, Model A81-2450.

Option 7:PARALLEL BCD WITH PEAK & HOLD: This option combines both options (1 & 3) on the same board.

Option 8:8-BIT ENCODED BCD MUX: The output of the A/D (same as display) is presented on an 8 bit BUS containing the BCD (1, 2, 4, 8) plus over-range, under-range, and sign are encoded in 3 lines. A separate strobe BCD word line is included. This system is compatible to any 8 bit BUS system. Address selection is available.

Option 9:8-BIT ENCODED BCD OPTO-ISOLATED: Same as option 8 except it is opto-isolated to 1500VRMS. Power requirement is 5VDC at 100mA.

POWER INPUTS: Seven options are available: 5VDC non-isolated, 120VAC, 50-60Hz & 240VAC, 50-60Hz isolated to 1200VDC or RMS, 10VAC, 40-400Hz non-isolated, 12VDC non-isolated, 7-32VDC non-isolated and 7-32VDC isolated.

CASE: U.L. approved ABS Polycarbonate 94VO rated. Meets 1/8 DIN and NEMA panel cut out requirements.

FULL SCALE, DECIMAL POINTS, AND OTHER ADJUSTMENTS are easily accessible by removing the bezel and filter.

