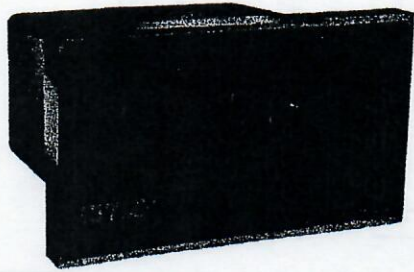


VOLTS DC/mADC INPUT, 4½ & 3½ DIGIT DPM
With: MUX BCD · 3-State BCD · Peak & Hold
· Digital Comparator (Alarm) · µP Compatible

MODEL
350



4½ DIGIT

Features

- Bipolar, Auto Zero
- Differential Input
- Large 0.6" Display
- Line or Logic Powered
- Separate Connectors for Signal and AC Power
- MTBF : 100,000 Hours



3½ DIGIT

DESCRIPTION: The Model 350 is a 3½ or 4½ Digit DPM with high stability and accuracy. It uses the latest state of the art A/D. The versatility of Otek's packaging design, burn-in and test techniques gives you low cost, reliability and flexibility. Otek's main frame approach means that you can upgrade to a 4½ Digit DPM and several other functions without panel cutout change and minimal wiring change. The 350 DPM can be ordered with sensitivity from 50mV to 500 volts, 200µA to 200mA and a 2 volt ratiometric.

I/O PORTS: Multiplexed BCD, Busy, Strobe, Hold, Under-range, Over-range, Lamp Test & Display Blank are included.

DIGITAL PEAK & HOLD/RECALL: With this option, the DPM will store both positive and negative peaks as it displays current data. Since the peaks are stored digitally, there is no droop (drift vs. time). The user can recall or reset the positive and negative peaks by external logic connections.

3T BCD: Tristate Full Parallel BCD can be grouped in 4 bit, 8 bit or 16 bit format with individual digit select "Output Disable" and common "Input Disable" lines, 10 LP Loads of Positive LPTTL Logic is standard (Negative Logic is available on request). A must for µP, Printer and UART Interface.

DIGITAL COMPARATOR: Compares Internal BCD to External BCD from any source such as Thumbwheel Switches, µP, etc. High, equal and low logic outputs are available. Two latchable Opto-isolated Triac Drivers of high and low comparison are included. Also, 10 or 100 counts of Hysteresis can be enabled. **Thumbwheel Switches** for the digital limit are available and must be mounted separately on the panel, they are rear mount type.

FULL SCALE: Adjustment (15 Turns) allows user to scale the reading from front panel (behind filter). Full scale adjustment for 2V, 20V, 200V and 500V is ±25% of F.S. for high stability.

DECIMAL POINTS: Hard wired selectable at rear connector.

POWER: Choice of 5VDC (std.) or AC Input (optional). When 120/240VAC Power Supply is ordered, its primary to secondary isolation is 1200VDC (or RMS) and it can supply the following for external use: +5VDC ±5% at 50mA and -5VDC ±5% at 5mA. Input is 120/240VAC ±10% selectable.

CASE: U.L. approved ABS Polycarbonate 94VO rated.

SPECIFICATIONS AT 25°C

Input	Differential or Single Ended
Zero	Automatic
CMV	±2VAC or VDC with 5 volt Powered
CMR	90dB
Bias Current	10pA
Input Protection Voltage Range	1000 volts
Input Protection Current Ranges	200% of F.S.
Input Impedance: 50mV, 200mV & 2V	1000MΩ
20V, 200V & 500 Volts	10MΩ
200µA Range	10KΩ
2mA Range	1000Ω
20mA Range	100Ω
200mA	10Ω
Sampling Rate	3/Sec. Nominal, 20 Maximum (Specials)
Ratiometric Input	0.1 volt > V Ref. < 2 volts
Accuracy	±0.005% ±1 Count
Temperature Coefficient	50PPM/°C
Display	0.6" Red LED
MTBF	100,000 Hours
All Logic Outputs	1 TTL Load
Overload Indication	Flashing Display
Warm-up Time	Less Than 1 Minute
Operating Temperature	-10° to +60°C
Storage Temperature	-20° to +70°C
Power Requirement	1 Watt at +5VDC
Triac Drivers	10 mA at 120VAC

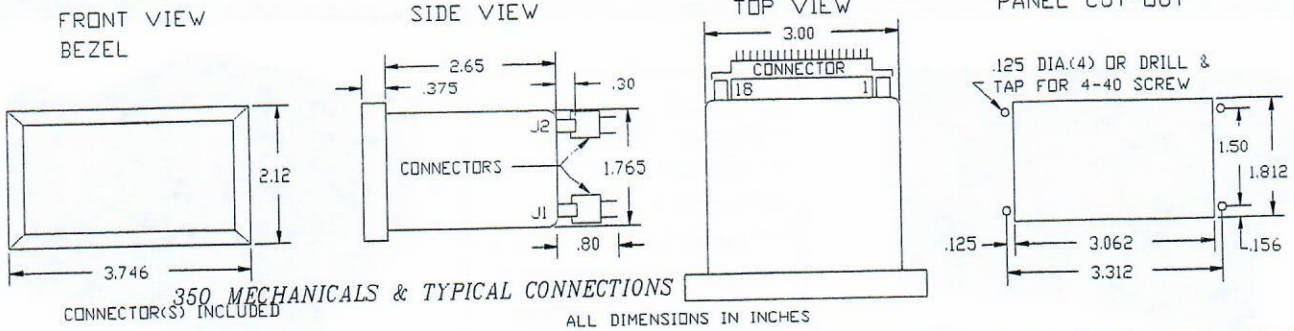
ORDERING INFORMATION(11/1/00)

MODEL 3 5 0	SWITCHES FOR DIG. COMPARATOR
RANGE	0None
0* 200mV	1±3½ Digit
1 2 Volts	2±4½ Digit
2 20 Volts	POWER & OPTIONS
3 200 Volts	0 5VDC
4 500 Volts	1 120/240VAC
5 2V. Ratio metric	2 3T Parallel BCD
6 200µAmp	3 3T BCD w/AC (1)
7 2mAmp	4 Dig. Comp.
8 20mAmp	5 Comp. w/AC (1)
9 200mAmp	6 Peak/Hold
\$* 50mV	7 P&H w/AC (1)
(50mV = 1000 Counts)	DISPLAY/RESOLUTION
(1) When this option is ordered, the power supply must be mounted externally	0 3½-2000 Counts
*Not Available with 4½ Display Option.	1 4½-20,000 Counts
	Connectors included

D.C. VOLTS/AMPS

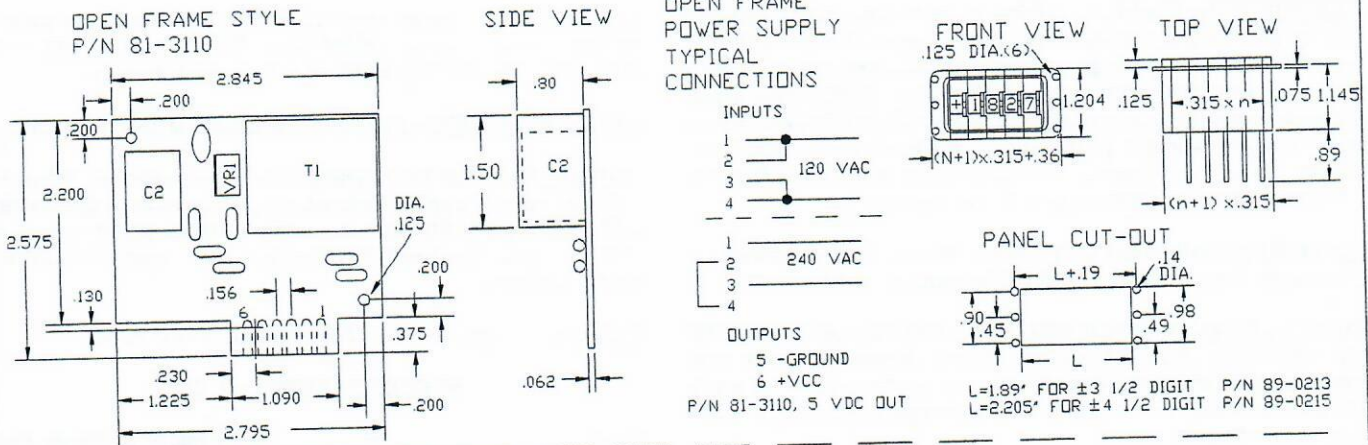
350 MECHANICALS & TYPICAL CONNECTIONS

MECHANICALS



MECHANICALS FOR POWER SUPPLIES

SR SERIES THUMBWHEEL SWITCHES (REAR MOUNT)

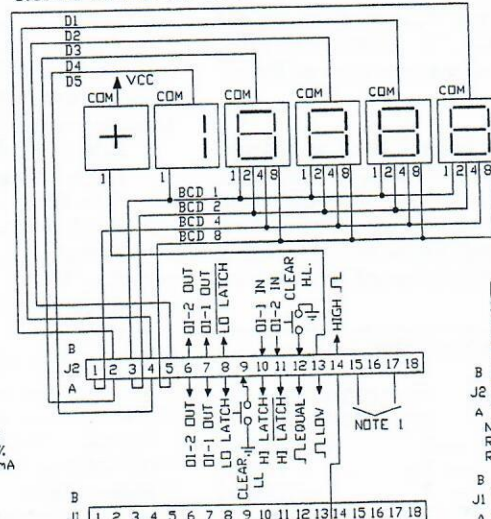
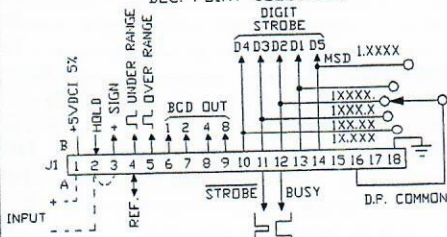


SIGNAL INPUT, MULTIPLEXED OUTPUT & DEC. POINT SELECTION

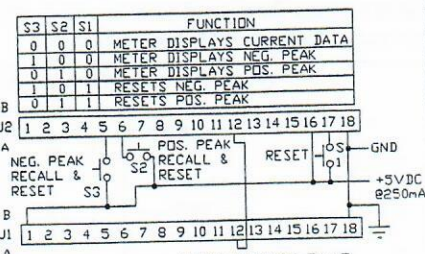
MOD. 350 TYPICAL CONNECTIONS DIGITAL COMPARATOR WITH THUMBWHEEL SWITCHES

NOTE 1: CONNECT 17A TO 28 FOR 10 CTS. HYST. OR ALSO CONNECT 15A TO 4B FOR 100 CTS. HYST.

THUMBWHEEL SWITCHES WITH BLOCKING DIDDIES IN COMMON ANODE CONFIGURATION



DIGITAL PEAK & RECALL



F#87MC350.DWG

FAX: 520-790-2808
E-MAIL: sales@otekcorp.com
TOLL FREE: 877-227-6835
520-748-7900

OTTEK™
CORP.
SINCE 1974

4016 E. TENNESSEE ST.
TUCSON, AZ. 85714 U.S.A.
MADE IN USA