



HI-REL DIGITAL MICRO VOLTMETER WITH DIFFERENTIAL AMPLIFIER

MODEL 341



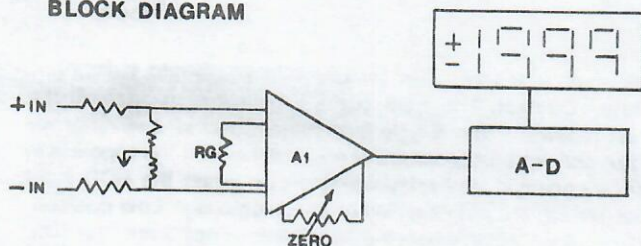
FEATURES

- $\pm 10V$ CMV
- $10\mu V$ Resolution
- 1000V F.S. Range
- Conditioned Analog Output

DESCRIPTION

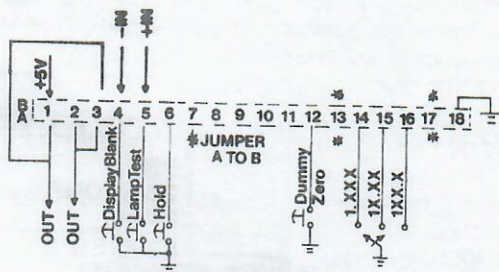
The 341 is a high resolution wide range gain programmable DPM using the Main Frame of the 300. Signals as low as $10\mu V$ can be measured; however, signals as large as 1000Vdc can also be measured with internal power source. The Floating Input can accept signals with a maximum of $\pm 10Vdc$ CMV from Signal Low (-in) to Power Ground. The Analog conditioned output is 0-200mV and capable of supplying 1mAdc.

BLOCK DIAGRAM



TERMINAL DESCRIPTION

1B +5Vdc; 18B 5V Return (Digital Ground) 3B conditioned Signal Output, connect to 1A; 4B - Signal Input; 5B + Signal Input maximum CMV from 4B to 18B or 2A should not exceed $\pm 10Vdc$; 6B and 7B External Zero Adjust (minimum 20 K Ω in Parallel to Internal P1, see Schematic); 13A (-12V) connect to 13B; 17A (+12V) connect to 17B; 14A, 15A and 16A **Decimal Points Ground As required**; 4A Display Blank; 5A Lamp Test open for normal operation ground to enable.



ORDERING INFORMATION

MODEL 341 X X X

Range/Resolution	Zin	Power	Display
0 ... 20.00mV/10 μV	10 ⁹	0 ... 5 Vdc Req'd	0 ... Standard
1 ... 200mV/100 μV	10 ⁹	1 ... Internal	1 ... Dummy Zero
2 ... 2V/1mV	10 ⁹		
3 ... 20V/10mV	10 ⁶		
4 ... 200V/100mV	10 ⁶		
5 ... 1000V/1V	10 ⁶		

SPECIFICATIONS @20°C

CMRR	120d
CMV	$\pm 10Vdc$
Bias Current	10p
Accuracy & Linearity	$\pm 0.2\%$
Zero	Auto Adjustable
Input Impedance	See Range
Power Requirements	5Vdc $\pm 5\%$ @ 330m
Temperature Coefficient	75PPM/ $^{\circ}C$
Operating Temperature	0 to +55 $^{\circ}C$
Storage Temperature	-20 to +60 $^{\circ}C$

APPLICATIONS

