

# TRANSCAT

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## DVC-8500

### GENERAL DESCRIPTION

The DVC-8500 is a low cost 4 1/2 digit voltage reference source with a full-scale output range of +19.999 Volts to -19.999 Volts in 1 millivolt steps. The calibrator features high performance for such a small, low-cost instrument. An active buffered output amplifier provides very low output impedance and up to 25 milliamps output current. An oven-stabilized zener diode internal reference provides an overall output accuracy of  $\pm 500 \mu\text{V}$  and  $\pm 25 \text{ ppm}$  of the setting with zero drift of  $\pm 5 \mu\text{V}/^\circ\text{C}$  and full-scale drift of  $4 \text{ ppm}/^\circ\text{C}$  max. Output is set by unique front-panel lever switches which provide rapid, positive contact adjustment. Voltage outputs may be continuously varied within  $\pm 1.5$  millivolts of selected readings by using a front panel vernier control. The DVC-8500 output is available from both front panel banana jacks and rear panel 36-pin gold-plated PC connector fitted with lug terminals.

The rear connector has sense feedback inputs to reduce errors caused by cable resistance. A front-panel LED overload lamp lights if the output exceeds 25 mA and current limiting occurs at 70 mA output. The output circuit accepts up to  $\pm 25 \text{ mA}$  source or sink current at rated accuracy. The rear connector also includes a low-Z output of the +10 Volt reference source with 5 mA maximum. Powered by a choice of 100, 115 or 230 VAC  $\pm 10\%$  and 47 to 440 Hz at 10 watts, the DVC-8500 offers transformer isolation up to  $\pm 300 \text{ V}$  dc. Output line rejection is within  $\pm 50$  microvolts of zero. The black-anodized extruded aluminum housing provides excellent shielding from electrical noise. The small size and light-weight design of the DVC-8500 makes it an ideal portable instrument for a technician's repair kit. When mounted on its bench-top tilt stand, the DVC-8500 uses very little space and can be positioned close to test circuits.

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