



INTRODUCTION

It is a IC regulated current source to provide a constant current to the probe irrespective of the changing resistance of the sample due to change in temperatures/magnetic field.

The basic scheme is to use the feed-back principle to limit the load current of the supply to a pre-set maximum value. Variation in the current are achieved by a potentiometer. the supply is a highly regulated and practically ripple free d.c. source. The current is measured with a 3½ digit LED display for greater resolution and reading convenience.

SPECIFICATION

<i>Open Circuit Voltage</i>	: 10 V
<i>Current Range</i>	: 0-20 mA & 0-200 mA
<i>Resolution</i>	: 10 μ A at 0-200 mA range
<i>Load regulation</i>	: 0.05% for 0 to full load
<i>Line regulation</i>	: 0.05% for 10 % variation
<i>Input</i>	: 220V \pm 10%, 50Hz.
<i>Display</i>	: 3½ digit 7 segment LED display (12.5 mm height) with autpolarity and decimal indication
<i>Overload Indicator</i>	: Sign of 1 on the left & blanking of other digits