

BC151 ELECTRONIC POTENTIOMETER

INSTALLATION AND OPERATING INSTRUCTIONS

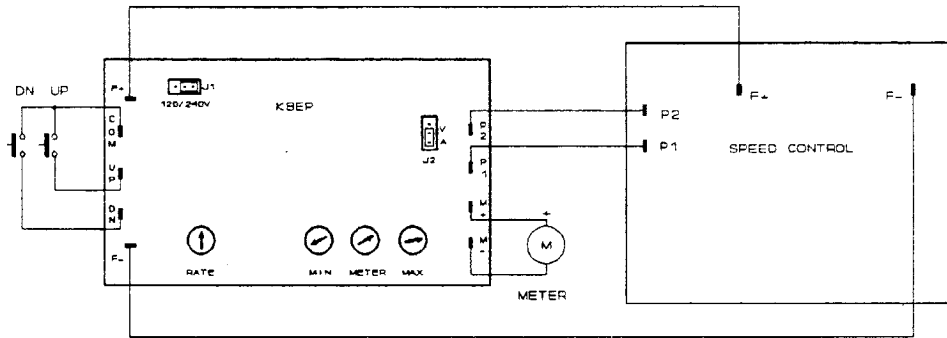
OPERATION

The BC151 is designed to provide digital type control of a motor speed control. It replaces the standard rotary potentiometer with a set of momentary pushbuttons or membrane switches (customer supplied); one to increase speed ("UP") and the other to decrease speed ("DOWN"). Pressing the "UP" button will increase the speed as long as the button is pressed, or until the maximum preset speed is reached. Pressing the "DOWN" button will decrease speed until the minimum preset speed is reached. The rate at which the unit increases and decreases is adjustable via the rate trimpot (.5 - 8 secs.).

The unit contains a separate meter output which can be used to operate a digital or analog meter. Jumper J2 is provided for selecting either a voltmeter (0-10 VDC) or ammeter (0-10 ma). The meter scale can be calibrated to desirable units with the built-in Meter Scale Trimpot (METER). A minimum speed trimpot (MIN) is also provided which is used to preset the minimum level of motor speed and meter output. A maximum speed trimpot (MAX) is used to set the maximum output speed of the motor.

WIRING

Wire the BC151 in accordance with the connection diagram as shown. Be sure to set jumper J1 to the correct input AC line voltage, 120V or 240V AC. Also set jumper J2 to the "V" position if a voltmeter is used or to "A" if a milliammeter is used. Wire the "UP"/"DOWN" switches with shielded cable if the wiring length exceeds 18" (45 cm). **CAUTION: The Up/Down switches are not isolated from earth ground.**



CALIBRATION

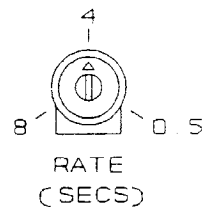
Apply power to Speed Control. Adjust trimpots as follows:

MIN--adjust to desired minimum speed. MAX--adjust to desired maximum speed. METER--adjust for maximum reading at maximum speed. RATE--adjust for desired rate of change of speed reference.

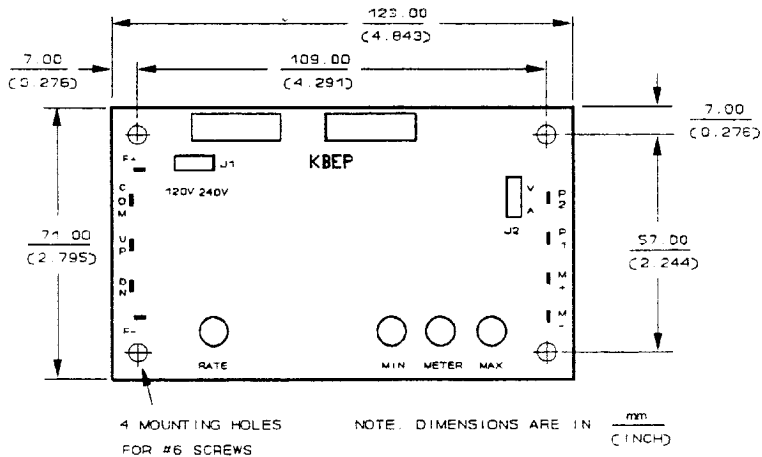
To increase speed, connect "UP" terminal to "COM" terminal until desired speed is obtained.

To decrease speed, connect "DN" terminal to "COM" terminal until desired lower speed is obtained.

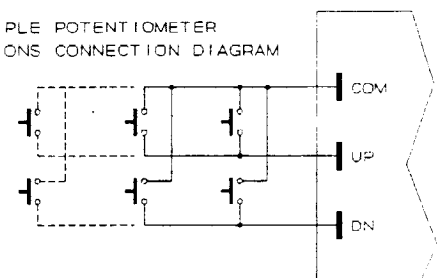
FACTORY SETTING



MECHANICAL SPECIFICATIONS:



MULTIPLE POTENTIOMETER STATIONS CONNECTION DIAGRAM



APPLICATION INFORMATION:

The BC151 can be used as a master potentiometer in applications where multiple potentiometer stations are required. See wiring Diagram.