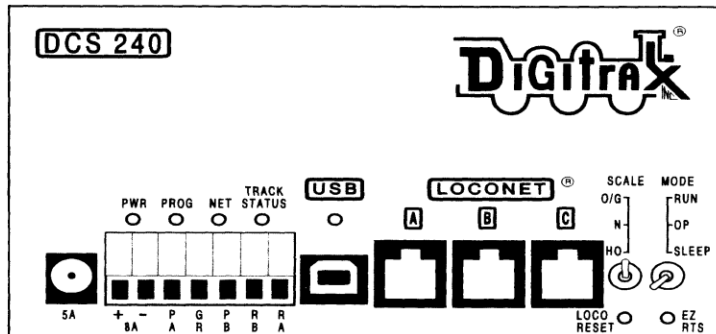


4.0 DCS240 Control Panel



4.1 Power (PWR) Indicator

This LED indicates there is power supplied to the DCS240. It will light either green (command station mode) or red (booster mode). The PWR indicator will light GREEN or RED winking off every 3 seconds as a “Heartbeat” when the unit is in RUN mode. *See Section 4.17 for full light (LED) indication list.*

4.2 Power In Barrel Plug (5A) or Terminals (“+” and “-“ 8A)

The DCS240 may be powered either using the barrel plug connector or the screw terminals labeled “+” and “-“. The barrel plug connector is only rated for a maximum of 5 amps. The screw terminals can be used with any suitable power supply up to the unit’s maximum 8 amps. Make sure your DC power supply is rated for your desired voltage and amperage. When using the screw terminals make sure that the polarity of the power supply matches the correct terminals on the connector. The DCS240 is reverse input protected, however it will not power on if the DC polarity is incorrect.

The DCS240 is for use with DC POWER input ONLY, MAXIMUM INPUT 8 AMPS, 24VDC, 192 VA MAXIMUM CONTINUOUS, DO NOT Exceed 25VDC maximum Input. Minimum Input 13VDC.

There are many power supplies and power packs that can supply the input power for the DCS240. Most regular DC model railroad power packs are not able to supply sufficient amperage to the DCS240, because they were designed to run only 1 or 2 locomotives in a DC blocked system. With Complete Train Control you’ll be running multiple locomotives in the same power district so, you’ll need to provide more power to each district.

It is recommended that when selecting a DC power supply the voltage should slightly exceed the track voltage you plan to run your layout at. However, the DC input voltage should not exceed track voltage by more than 3V. If the DC supply voltage exceeds track voltage by more than approximately 3V the DCS240 will enter Safe Operation Mode see Section 4.11.4.

Power to the DCS240 should not be rapidly cycled ON-OFF-ON. When power to the unit is switched off, wait 30 seconds before turning on the power again.