

PWM Panel Dimmer

Pulse Width Modulation Cockpit Panel Dimmer



Benefits:

- Qualified to DO-160
- In Service
- Programmable
- Multiple Inputs
- Robust Design
- High Reliability
- 5V & 28V drives

Aircraft cockpit instrument consoles are fitted with backlit panels for identification and night time illumination. These panels can be light emitting diode (LED), filament lamps or analogue input (either directly PWM driving LEDs/filaments or through an analogue driven PWM circuit existing on the panel).

Most aircraft instrument consoles are a mix of the above.

Each type of panel requires a different drive algorithm.

Panels are dimmed using a 400 Hz pulse repetition frequency.

Each panel needs to be 'balanced' to ensure that it is illuminated at the required intensity relative to the other panels on the console.

Each panel (or group of panels) needs to be 'dimnable' by the aircrew.

This remote dimmer CCU has been designed to be programmable having the following functions:

1. Up to ten input dimmer pots (one for each of nine panels plus a master dim pot for all panels).
2. Up to nine panel groups
3. Any panel can be set to any algorithm (i.e. any panel type).
4. An RS232 connection for remote programming using a PC.

The dimmer CCU, using the RS232 programming input, can be configured for any combination of 1, 2, or 3 above.

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