

Appendix A: Control Port Pinouts and Functions

Pin #	Function	Description	Signal Type	Level when Asserted	Level when Deasserted	Notes	Applications
1	Balanced Signal Input (+)	Used for balanced signal input	AC	10V maximum	0V	Can be used as alternate or additional balanced signal input	Balanced Signal Input: Connect to your signal input device using the DB-9 connector's Pin 1 (signal +), Pin 2 (signal -) and Pin 3 (ground).
2	Balanced Signal Input (-)	Used for balanced signal input	AC	10V maximum	0V	Can be used as alternate or additional balanced signal input	Balanced Signal Input: Connect to your signal input device using the DB-9 connector's Pin 1 (signal +), Pin 2 (signal -) and Pin 3 (ground).
3	Balanced Signal Input (ground)	Used for balanced signal input	AC	10V maximum	0V	Can be used as alternate or additional balanced signal input	Balanced Signal Input: Connect to your signal input device using the DB-9 connector's Pin 1 (signal +), Pin 2 (signal -) and Pin 3 (ground).
4	Blanking Input	Used for Emergency Stop / Fast Mute / Blanking	DC	5V to 15V	0V	The unit's output is muted when asserted; normal operation when deasserted. Blanking Input is opto-isolated and requires a ground which Pin 5 (Blanking Ground) provides.	Remote Mute: Use a switch or optocoupler to remotely mute the unit. Assert 5-15V between Pin 5 (Blanking Ground) and Pin 4 (Blanking Input) to activate the mute/blanking feature.
5	Blanking Ground	Used for Emergency Stop / Fast Mute / Blanking	DC	5V to 15V	0V	The unit's output is muted when asserted; normal operation when deasserted. Blanking Input is opto-isolated and requires a ground which Pin 5 (Blanking Ground) provides.	Remote Mute: Use a switch or optocoupler to remotely mute the unit. Assert 5-15V between Pin 5 (Blanking Ground) and Pin 4 (Blanking Input) to activate the mute/blanking feature.
6	Fault	Used for Remote Fault Status	DC	Closed through 2 k Ω resistor	Open	Internal 2 k Ω resistor is in series with an opto-isolated transistor that acts as a switch for Fault status. The Fault input is opto-isolated and requires a ground which Pin 7 (Fault Ground) provides.	Remote Fault Status: Remote LED, when lit, signals a Fault condition. Supply 5-15 VDC to an LED between Pin 7 (Fault Ground) and Pin 6 (Fault).
7	Fault Ground	Used for Remote Fault Status	DC	Closed through 2 k Ω resistor	Open	Internal 2 k Ω resistor is in series with an opto-isolated transistor that acts as a switch for Fault status. The Fault input is opto-isolated and requires a ground which Pin 7 (Fault Ground) provides.	Remote Fault Status: Remote LED, when lit, signals a Fault condition. Supply 5-15 VDC to an LED between Pin 7 (Fault Ground) and Pin 6 (Fault).
8	I MON +	Used for Remote Current Monitor	AC & DC	5A / V		Output current produced per voltage detect.	Current Monitoring: Connect a voltage meter to monitor the output current being produced by the amplifier. Connect across Pin 8 (I MON+) and Pin 9 (Analog Ground). For each 1V detected, current output is 5A.
9	Analog Ground	Used for Remote Current Monitor	AC & DC	5A / V		Output current produced per voltage detect.	Current Monitoring: Connect a voltage meter to monitor the output current being produced by the amplifier. Connect across Pin 8 (I MON+) and Pin 9 (Analog Ground). For each 1V detected, current output is 5A.