AD4 DC

AD4 DC Power Module

Shure AD4 DC power module user guide. Includes information about how to run a unit in the DC power mode, including input voltage range and power consumption.

Version: 3 (2019-L)

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DC Power Module

The DC power module is an upgrade that allows AD4D and AD4Q receivers to operate on AC or DC power. The DC module provides power if AC power fails or is unavailable. Switching between AC and DC occurs seamlessly, without affecting receiver operation.

Features

- Operation from a DC power source
- Overvoltage and Undervoltage protection
- Reverse-polarity protection

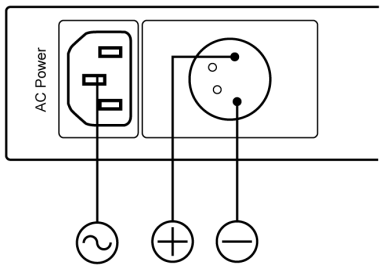
Power Connections

The DC module can operate in the following input modes:

- AC and DC
- AC only
- DC only

1. Make sure the receiver power switch is set to off.
2. Connect an AC power source to the AC input.
3. Connect a DC power source to the DC input.
4. Set the receiver power switch to on.

Note: The receiver will operate using AC power, unless the AC power source fails or is disconnected.



Operation Modes and Icons

An icon on the home screen indicates the operating mode and power source for the receiver.

Icon	Operating Mode	Power Source
	DC power available.	Receiver is using AC power source, with DC power available.
	Receiver operation from DC power source.	Receiver is using DC power source. AC power is not connected or has failed.
	DC Power not available.	DC power source is not connected or voltage level is below minimum require-ments.

Note: Keep battery charged to a minimum of 10.9 V DC to ensure reliable DC operation.

Monitoring the DC Power Status

The status of the DC module can be viewed in the receiver menu:

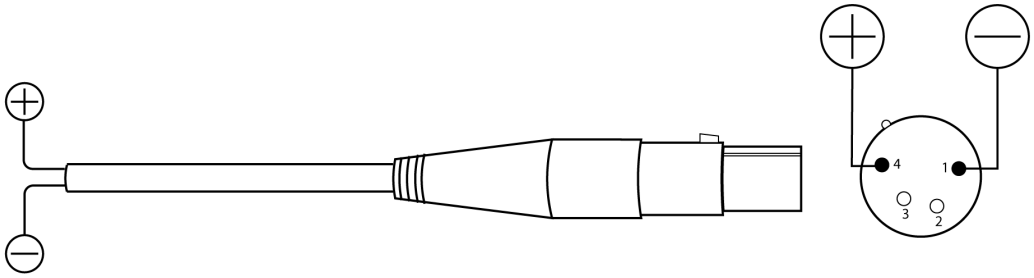
1. From the *Device Configuration* menu choose *DC Power Status*.
2. The DC Module screen displays the following information:
   - *DC MODULE INSTALLED:* Yes or No
   - *DC POWER AVAILABLE:* Yes or No
   - *POWER SOURCE:* AC or DC

Connector Wiring Diagram DC to 4-Pin XLR

Recommended cable gauge for connector:

- 15 feet or less: 18 AWG (1 mm^2)
- 16 to 25 feet: 16 AWG (1.5 mm^2)
- 26 to 32 feet: 14 AWG (2.5 mm^2)

Important: Total cable length should not exceed 32 feet.



Specifications

DC Input Voltage Range

10.9 to 14.8V DC

Maximum DC Input Current

AD4D	3.3 A
AD4Q	4.0 A

Protection Modes

Overvoltage, Undervoltage, Reverse Polarity

Connector Type

4-Pin XLR	Pin 1	Negative
	Pin 2	No Connection
	Pin 3	No Connection
	Pin 4	Positive