Power Distribution Hub Overview
Power Distribution Hub Specifications
Getting Started with the Power Distribution Hub
Power Distribution Hub Troubleshooting
Status LED Patterns

REV HARDWARE CLIENT

Getting Started with the REV Hardware Client

SOFTWARE RESOURCES

Power Distribution Hub Firmware Changelog

Power Distribution Hub Specifications

ON THIS PAGE

Main Electrical Specifications
High Current Channel Specifications
Low Current Channel Specifications
Switched Channel Specifications
Mechanical Specifications
Mechanical Drawings

We're Updating our Documentation! For the most up-to-date information about the Power Distribution Hub and other iON Control System Devices please check out the following new documentation pages:

- REV iON Control System
  - Power Distribution Hub Resources
  - REVLib for Power Distribution Hub
- REV Hardware Client Documentation

The following tables provide the operating and mechanical specifications for the Power Distribution Hub (PDH).

DO NOT exceed the maximum electrical specifications. Doing so will cause permanent damage to the Power Distribution Hub and will void the warranty.

The Power Distribution Hub's reverse polarity protection DOES NOT protect downstream devices. Verify the correct polarity on all power wires before operation.

Main Electrical Specifications

Parameter	Min	Typ
Operating Voltage Range	4.7	12
Power Input Wire Gauge (Bare Solid)	18	-
Power Input Wire Gauge (Bare Stranded)	18	-
Power Input Bare Wire Strip Length	0.72	0.75
Power Input Wire Gauge (Stranded, with ferrule)	18	-
Input Voltage Measurement Resolution	-	7.81
CAN Termination	-	120
CAN Terminal Wire Gauge (Bare Solid/Stranded)	24	-
CAN Terminal Bare Wire Strip Length	0.33	0.35
CAN Terminal Wire Gauge (Stranded, with ferrule)	24	-

Make sure to take into consideration current requirements when choosing wire gauge for any given application.

High Current Channel Specifications

Parameter	Min	Typ
Fuse/Circuit Breaker Size	-	ATO/ATC
Supported Fuse/Circuit Breaker Current Rating	-	-
Channel Current Measurement Range	0	-
Channel Current Measurement Resolution	-	125
Supported Wire Gauge (Bare Solid/Stranded)	24	-
Bare Wire Strip Length	0.43	0.5
Supported Wire Gauge (Stranded, with ferrule)	23	-

Low Current Channel Specifications

Parameter	Min	Typ
Fuse/Circuit Breaker Size	-	ATM/APM
Continuous Output Current	-	-
Single Channel Peak Output Current †	-	-
Supported Fuse/Circuit Breaker Current Rating	-	-
Supported Fuse/Circuit Breaker Current Rating for PH and PCM (See note below)	-	-
Channel Current Measurement Range	0	-
Channel Current Measurement Resolution	-	62.5
Supported Wire Gauge (Bare Solid/Stranded)	24	-
Bare Wire Strip Length	0.33	0.35
Supported Wire Gauge (Stranded, with ferrule)	23	-

It is recommended to use a 20A fuse for a single Pneumatic Hub or Pneumatic Control Module connected to any of the three Low-current Channels if using a compressor with higher peak current draw, such as the CP26 or the Thomas 405ADC38.

†	Peak current can be sustained for 5 min.

Switched Channel Specifications

Parameter	Min	Typ
Continuous Output Current †	-	-
Fuse/Circuit Breaker Size	-	ATM/APM
Supported Fuse/Circuit Breaker Current Rating †	-	-
Low Current Channels	0	-
Low Current Channel Resolution	-	62.5
Switching Frequency	-	-
Supported Wire Gauge (Bare Solid/Stranded)	24	-
Bare Wire Strip Length	0.33	0.35
Supported Wire Gauge (Stranded, with ferrule)	23	-

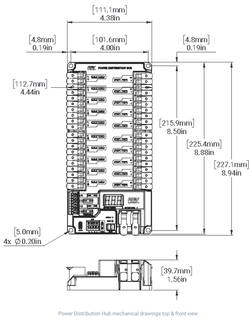
†	Continuous current is thermally limited, therefore it depends on environmental and loading factors. Channel may shut itself off automatically if thermal limits are reached

Mechanical Specifications

Parameter	Min	Typ
Body Length	-	8.875
Body Width	-	4.375
Body Height	-	1.563
Weight	-	1.14
Mounting Hole Grid Pitch	-	0.5
Mounting Screw Size (Clearance)	-	#10
Case Material	-	ABS

DO NOT use thread-locking fluid on the mounting hardware for the REV Power Distribution Hub. Thread-locking fluid will damage the ABS plastic case.

Mechanical Drawings



Power Distribution Hub mechanical drawings top & front view

Previous
Power Distribution Hub Overview

Next
Getting Started with the Power D...