

PhidgetMotorControl HC



Note: The 1064_1B is identical to the 1064_1, except that you have the option of whether you want to include the USB cable.

The PhidgetMotorControl HC allows you to control the angular velocity and acceleration of up to two high-current DC motors.

The 1064:

- Provides bi-directional control to 2 DC motors
- Requires external 6 to 15VDC Power Supply
- USB port is isolated from the motor control outputs
- Over voltage, over temperature, over current conditions are fed back to the API on the PC

Many variations of brushed DC motors exist: permanent magnet motors, electromagnet motors, coreless motors, linear motors... the PhidgetMotorController can be used with any of these.

Comes packaged with

- A Hardware mounting kit (4 nuts and bolts (M3), 4 plastic spacers)

Product Specifications

Controller Properties

API Object Name	MotorControl
Motor Type	DC Motor
Number of Motor Ports	2
Velocity Resolution	0.79 % Duty Cycle
Acceleration Resolution	1.9 % Duty Cycle/s
Acceleration Min	1.9 % Duty Cycle/s
Acceleration Max	1940 % Duty Cycle/s
Acceleration Time Min	52 ms
Acceleration Time Max	105 s
PWM Frequency Max	20 kHz

Board Properties

Controlled By	USB (Mini-USB)
API Object Name	DCMotor

Electrical Properties

Supply Voltage Min	6 V DC
Supply Voltage Max	15 V DC
Continuous Motor Current Max	(per motor) 14 A
Surge Current Max	(per motor) 32 A
Overcurrent Trigger	(combined) 50 A
Current Consumption Max	100 mA
Current Consumption Min	15 mA
USB Speed	Full Speed

Physical Properties

Recommended Wire Size	10 – 26 AWG
Operating Temperature Min	0 B°C
Operating Temperature Max	70 B°C