

INTEGRATED DUAL PM MOTOR CONTROLLER

MODEL 1288

CURTIS



DESCRIPTION

Curtis Model 1288 Permanent Magnet Motor Speed Controller is specifically engineered to provide smooth, precise control for wheelchairs and other electrical mobility aids in an integrated package.

WARRANTY

Two Year Limited Warranty
(see terms of sale for specifics)

Application

The Curtis PMC Model 1288 Integrated Dual Permanent Magnet Motor Controller is ideally suited for use with Motorized Wheelchairs and other Mobility Aids.

Features

Powerful and Reliable Controller

- Industry leading current handling capability of 60 or 90 amps.
- AutoTrim* (patent pending) continuously and autonomously corrects steering alignment after motor replacement or differences due to bearing/gear wear, tire inflation, lubrication, etc.
- Smooth performance is provided by vehicle-specific programming.
- Programmable for front, rear or mid-drive wheel vehicle configurations.
- Throttle tremor control delivers greater isolation for smooth performance.
- Programmable motor protection feature.

Ergonomic Design

- Joystick designed with non-slip materials and finger/palm-comfortable indentations delivers the maximum in user confidence and control.
- Integrated wrist-rest provides greater comfort and allows for more stable throttle control.
- Location of the mode switch, speed pot and programmer/charger port provides ease of access.

Energy Efficient

- Power Saver (automatic power-off function).
- BDI monitors battery discharge rates.
- Opportunity charging provides interim battery charge capability in-between full charges.
- Under-voltage and over-voltage protection is provided.

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Features...continued

Robust Safety Features

- Emergency braking is programmable to individual vehicles to provide safe, confident stopping
- Neutral release programming allows for gentle vehicle slowing with the release of the throttle
- Steering control is constant throughout the entire range of battery-current loading
- Precise anti-roll control prevents forward and reverse motion on ramps, hills, etc.

Diagnostic and Display Functions

- LED display provides indications for fault-codes and battery charging status
- The available 1311 Handheld Programmer provides detailed diagnostic and fault reporting capability

Auxiliary Seat Lift Function (optional)

- Two channels available (8 amps peak)
- Programmable for up/down speed
- Two modes of operation available

Meets US and International Regulations

- The Curtis Model 1288 Integrated Dual Controller is designed to meet the applicable portions of the following international regulations for safety, reliability and electromagnetic emissivity and interference:

EN 12184

ANSI/RESNA WC09, ISO 7176-9

ANSI/RESNA WC14, ISO 7176-14

ANSI/RESNA WC/Vol 2 Section 21

FDA Master File # is available up on request

IEC 529 (IP-54 environmental rating)

Model Chart

Model No.	Voltage Rating (volts)	Peak Current Rating (amps)	Current Rating 1 minute(amps)	Current Rating 1 hour (amps)
1288 - 200Y*	24	60	50	20
1288 - 210Y*	24	90	75	25
1288X - 900Y*	24	60	50	20
1288X - 910Y*	24	90	75	25

X= with AUX option (Includes two 8 amp (peak) auxiliary drivers)

*Y= connector option (select the corresponding number from the following list):

1: BEAU (9 pin or 13 pin, model dependent)

2: Curtis Connection System w/ either an Aux or Charger port

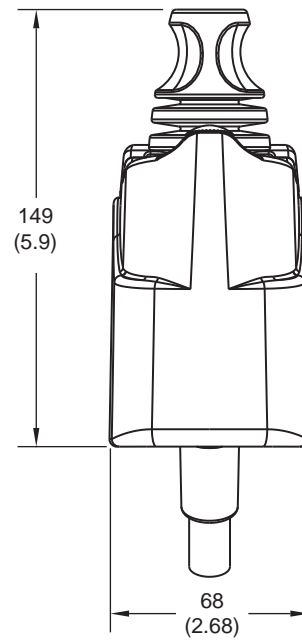
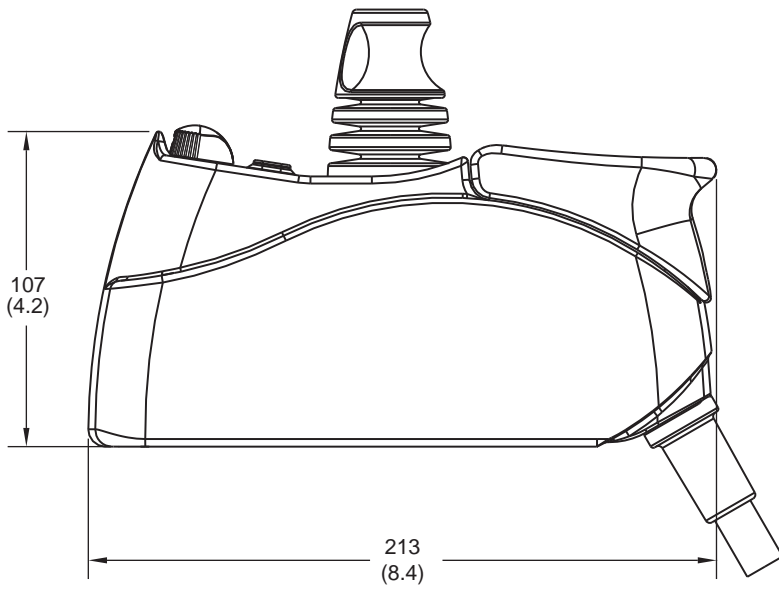
3: Curtis Connection System w/o an Aux or Charger port

4: Anderson (applicable connector furnished for Controller with or without Aux port)

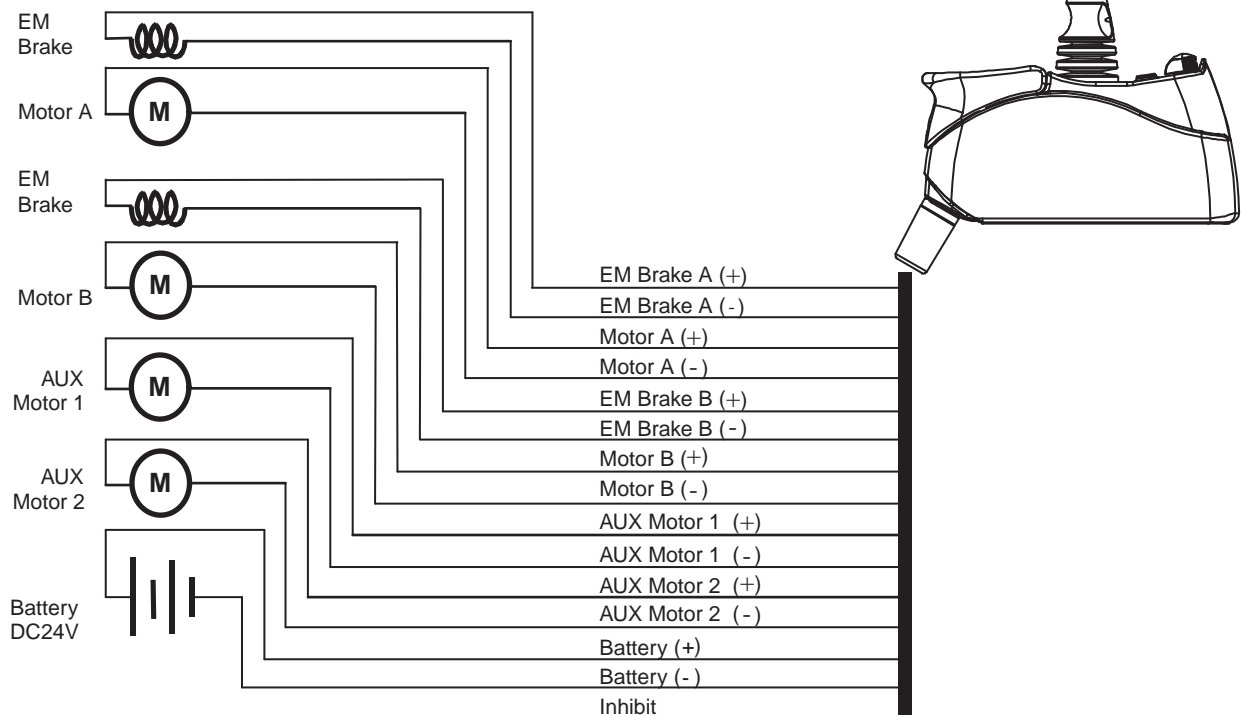
Dimensions: mm (inches)

Model L,W,H* All models: 213 mm (8.4 in), 68 mm (2.68 in), 149 mm (5.9 in)

* includes the height of the joystick



Wiring



Connectors

Several connector configurations are available. The fully integrated Curtis Connection System offers simplicity and reliability of connection to the motor, battery and auxiliary functions. Industry accepted alternatives such as Beau and Anderson connectors are also available.



Curtis Connector System



BEAU 13 & 9 pin Connectors



Anderson Connector

System Accessories



Model 1311 Handheld Programmer

Allows easy programming of the Model 1288 to “personalize” the controller’s variable functions.

This powerful unit provides the OEM, dealer, service, or user, access to the Model 1288 to modify performance parameters. It also displays diagnostic information about the Model 1288’s operational status.

Models 1604 & 1608 Switch Mode Battery Chargers

These chargers are ideally suited for use with the Model 1288 Dual Integrated Permanent Magnet Motor Controller.

With their Switch Mode charging design, compact size and intuitive logic circuitry, Models 1604 & 1608 safely and efficiently charge batteries in any condition.

Models 1604 & 1608 have an automatic shut-off and monitoring feature which prevents battery over-charging and periodically tops-off the battery charge when connected over long periods of time.

Model 1608 is also available as a sealed unit.

