



INTER ACTION

Initiatives in Mobility Technology





Discover the best of Curtis. Our new generation products are extensively tested for total reliability – designed to deliver top-line driving satisfaction and great value.



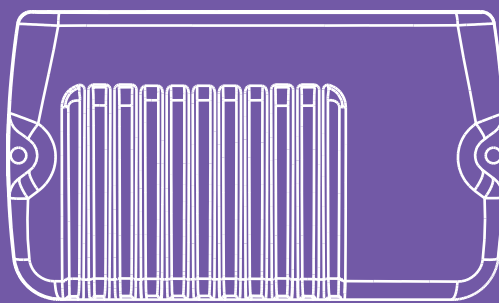
ENHANCE • EMPOWER • enAble®

OVERVIEW

Power. Control. Customization. Plus outstanding durability and reliability. It all adds up to the Curtis difference: exceptional drive feel in medical mobility vehicles.

Curtis electric vehicle systems are known for superior performance. Now, with the introduction of our new enAble® technology, we drive mobility capabilities even further.

For unique flexibility and ease of use, nothing drives like a scooter, powerchair or rehab chair with Curtis on-board. We deliver the quality that manufacturers insist on, therapists demand, and users deserve.



Scooters

DRIVING QUALITY



Over two decades ago, Curtis developed the first scooter controller and was the first in the industry to use MOSFETS. Today, we continue to set the standard in performance and reliability.

Our innovative technology addresses the full range of user needs, from lightweight foldables to heavy-duty four-wheelers. Now, with new enAble® technology, we take scooter engineering to a higher level, for extreme ease of installation and top performance at an exceptional value. With their superior reliability, you can install our products in total confidence.

It all adds up to the superb experience that Curtis always delivers.

New enAble® technology takes people where they want to go, from around the house to around the workplace.

You can also rely on Curtis for prompt customer service and product delivery. Our manufacturing sites are strategically positioned throughout Asia, Europe and North America. Curtis' global support network lets you deal directly with experienced engineers and service staff anytime, anywhere.



INTRODUCING THE enAble® SERIES



1211 enAble® Scooter Controller

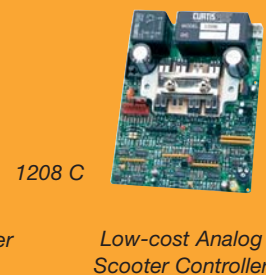
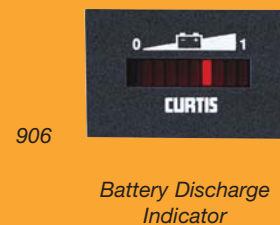
Small package • Full features

- A perfect fit for the small scooter, with full features compactly delivered in a small package.
- Delivers performance without damaging wear on motors and gearboxes.
- Fully sealed metal enclosure protects from harsh environments.
- All digital control and safety algorithms set the standard for feel and security.
- Easy to install; no additional enclosures or wiring harnesses required.
- Choose preprogrammed or field programmable.

1210 enAble® Scooter Controller

More power • Full features

- World-class drive and safety control in a more powerful package.
- Fully programmable, with sealing available for connections.
- Wide range of wiring and feature options to suit preferred system configuration.





Powerchairs

FULL-FUNCTION STYLE

Curtis helps powerchair users have it all – advanced ergonomics and features, power, safety, and design flexibility. Now, electric mobility is better than ever, with the enAble® system that delivers world class drive feel. Not only do these systems perform beautifully, they offer the most comprehensive range of built-in features available. You enjoy optimum value and great flexibility for customization – high end rehab-chair features at an economical price.

The enAble® 40 Powerchair Control System is engineered for excellence in every detail. The large LCD display is a perfect example. Designed for superb clarity, it has intuitive icons and outstanding visibility even in bright daylight.



Total quality. Total control. Total value.

Curtis high-performance powerchair systems are backed by expert support from dedicated engineering groups in the US and Europe.

enAble® 40 Powerchair Control System



INTRODUCING THE enAble® 40 SERIES ...

Advanced engineering for medical mobility.



1740 enAble® 40 Powerbase
Compact • Powerful

FINE TUNE
WITH MyChair™

- 50 or 75 amp rating with superior drive feel and response.
- Easily adapts to all wheelchair configurations.
- Two integrated 12 amp actuators for seat control. Selectable seat, backrest or leg functions (optional).
- Actuator short and open protection, time-out and end-stop detection.
- Four multi-function input pins afford amazing flexibility:
 - On/off board charger with speed inhibit and selectable seat movement restrictions.
 - Variable speed limit based on seat parameters.
 - Inhibit either or both seat actuator functions in all movement directions.
 - Swivel chair switch swaps between 2 independent and complete drive and control profiles.
 - 3 separate seat position speed limitations.

The unique MyChair™ feature consolidates all required program settings into one unified parameter for ultimate simplicity in customization. It allows anyone to quickly find the “just right” settings, from smooth and tame to responsive and quick.



- Fully integrated lighting option; no external module.
- Programmable and constant bulb lighting voltage for 6V, 12V and 24V systems. Short circuit protected with bulb fault detection and warning.
- Fully sealed enclosure is dust- and waterproof.
- Easily mounts to existing chair configuration. Convenient alignment V-groove for easy tube mounting.
- Patented Auto-Trim function automatically adjusts drive motors for comfortable tracking.
- Patent-pending anti-tip algorithm prevents unsafe steering movements.



1741 enAble® 40 Handcontrol

Smooth • Comfortable

- Stylish and ergonomic design with flexible plate or rod mounting.
- Crisp, clear LCD display has intuitive icons for all drive, seat, lighting and fault modes.
- Thin, flexible and field-replaceable communication cable comes attached for reliability and ease of installation.
- Variable and programmable display backlight enhances day and night viewing.



1742 enAble® Attendant Control

Compact • Intuitive

- Compact joystick module easily connects to the system.
- Push buttons and intuitive LED display afford easy control of drive and seating functions.



Programmer Components

1314 PC Programmer

1311 Handheld Programmer



SYSTEM-WIDE BENEFITS:

Selecting the right set-up and tuning the powerchair has never been easier than with enAble® 40 Powerchair System. It's logical, fully programmable and easy to use.

The enAble® 40 Series Powerchair Control System has up to eight personalities stored in the powerbase: four complete system set ups, each with two profiles.

The Curtis programmer is a series of superlatives – our best looking and easiest to use. By grouping settings into specific performance parameters, the new MyChair™ feature makes customization a snap. Drive characteristics can be quickly adjusted from firm and sporty to soft and smooth, simply by adjusting one parameter instead of a dozen or more.

System safety features include communications cables that lock securely in place, with latch and slide to protect from vibration and pull.

Curtis Instruments

enAble[®] 40 SERIES

Powerchair Control System

ATTENDANT CONTROL



- Programmable override control
- Direct seat control access
- Easy-to-read battery state-of-charge and mode status



HAND CONTROL



- Charges with standard 3-pin XLR
- Doubles as the port for PC or handheld programmer



- Universal plate or tube mounting



- Intuitive icon LCD display
- Sharp and clear day and night (LED backlight)



- Flexible cable
- Field replaceable



- Stylish and ergonomic keypad with 4, 6, 8 buttons (4 button shown)
- Configurations:
 1. drive only
 2. drive with actuators
 3. drive with light
 4. drive with actuators and lights

POWER BASE



- Full power ratings
- Sealed, rugged and stylish



- Secure slide-lock feature resists vibration and pull



- Built-in lights and actuators
- 3 inputs for advanced seat, speed limit and swivel chair control, plus inhibit

BATTERY CHARGER



- Range of chargers
- Portable
- High-frequency
- Programmable

Rehab Chairs

CUSTOM FIT



Because rehab chair user needs are so unique, we constantly update our systems with new modules and features in a highly customized process.

We start with our MC-2 system, which offers superb control and flexibility at excellent pricing. Then, we configure the controllers specifically to your requirements, creating special chairs to maximize the user's independence. However challenging the need, manufacturers and therapists will find it easy to build systems that suit individual applications.

Curtis vehicle control systems always deliver a ride that is smooth and responsive in all modes: acceleration, deceleration, forward or backward, on smooth indoor surfaces, up a hill or over gravel.

A RIDE THAT FITS THE LIFESTYLE

Curtis customization makes all the difference. Let our rehab chair technology be your starting point, with unique features that essentially plug-and-play, and a product line so flexible, it practically configures itself. Our reliable, high-performance systems make it amazingly easy to custom-fit features and ride to each rehab chair user's medical needs and personal style.

From advanced technology that controls the environment, to rugged systems that let you push the limit, Curtis electric mobility is always the perfect fit.

*Curtis engineers in California and Switzerland put their hearts and souls
into developing the next generation in mobility technology.*



CUSTOM BUILD WITH THE MC-2 SERIES

System

Powerful • Proven

- Rugged modules with proven circuitry and CAN bus communications deliver solid durability for reliable field performance.
- High-powered microprocessors afford easy addition of custom features. All module software is field updatable through any port.
- MC-2 is compatible with 1311 handheld programmer and 1314 PC programmer for user-friendly view and input of settings and parameters.

Handcontrol

User Friendly • Responsive

- Ergonomically designed superior feel, response and comfort.
- Push-button control of speed, mode, horn and lighting functions.
- Superior readability in the LED display for BDI, seat, drive modes and AUX.
- Full flexibility for custom specifications: toggle switches, jack inputs, displays and custom housings readily enhanced with unique image and interface.

Powerbase

Smooth • Strong

- 60 and 100 amp dual motor drive.
- Equally suited to front-, mid- and rear-wheel chairs.
- Inputs for seat and drive inhibits.
- Integrated 2-seat actuators and lighting control.

Modules

Flexible • Complete **Other performance-enhancing options include:**

- Seat module for up to 5 seat actuators and feedback signals.
- Environmental module for on-board control of up to 8 devices.
- Enhanced display with a large graphical user interface and integrated, self-programming IR control. Plus, other input controls:
 - Sip and Puff module
 - Stand-alone joystick
 - Attendant control
 - TASH inputs, connected to the enhanced display.



ABOUT CURTIS

Millions of Curtis products for electric vehicles are in use worldwide, from mobility aids and golf cars to on-road vehicles and heavy-duty industrial equipment. Curtis operates R&D centers specializing in medical mobility engineering in Switzerland and California.

Curtis enAble® products are fully compliant with international standards. Complete documentation and support is available for FDA, CE, TUV and relevant certification systems.



Two Curtis MC-2 vehicle control systems drive one of the most advanced 4-wheel drive, all-terrain electric vehicles for the disabled: Otto Bock's Super-4.



www.curtisinstruments.com

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