

# Product Specifications: Portable Chain Hoist Control Systems 4 Channel

## Functional Specifications

The Motion Laboratories Portable 4 Channel 3Ø Chain Hoist Control Systems shall be designed to operate up to 4 serially manufactured electric chain hoists, either individually or in groups. The units shall be part of the 1200-4 series.

## Features

- The unit shall have phase monitoring, where applicable.
- The unit shall have power indicators for all phases.
- The unit shall have high visibility ergonomic-grip yellow handheld remote station that features:
  - Quantity 4, 3-position directional switches.
  - Triangular UP/DOWN LED indicators.
  - Illuminated momentary GO switch.
  - Illuminated maintained KILL switch.
  - A 10 foot integrated remote cable.
  - Protective removable Lexan cover.
- The unit shall have an IEC-rated phase reversing contactor assembly.
- The unit shall have a Contactor Enable button to allow for local control at each hoist when using control pendants (pickles).
- The unit shall have PCB mount electro-mechanical control relays.
- The unit shall have recessed Branch-rated Square D QOU-Series circuit breakers.
- The unit shall have a flexible form factor: 1 or 2 sided Motion Laboratories ATA Flight Case.
- The unit shall have a linear power supply.
- The unit shall have a modular panel design.
- The unit shall be compatible with any manufacturer's hoist.
- The unit shall be compatible with Motion Laboratories automation systems, load monitoring systems and safety systems.
- The unit shall be manufactured in the USA



## Physical Specifications

All modular panels shall have a 19 inch rack width. All panels shall be made of .125 inch thick 5052 aluminum with a 1 inch flange and a black anodized finish. The unit shall be built into a 1 or 2 lid NEMA 1 Steel Liner, made from 14 gauge 1020 steel, with a protective Zinc chromate finish or a black satin fine texture powder coat.

The unit shall be labeled with the following information, using diamond scratch etching, laser etching, and/or molecularly-bonded thermal ink:

- Motion Laboratories name/trademark.
- Electrical and environmental ratings.
- Power/Control wiring designation (Pinout).
- All necessary safety information.
- Optional customer logo.

## **Electrical Specifications**

The unit shall be designed to operate within the current and voltage rating of the input connector.

The unit shall have variable input/output connectors, based on specific part number (see individual product sheet for details).

## **Environmental Specifications**

The unit shall be NEMA 1 Rated, for indoor use only.

## **Ratings and Certifications**

The Motion Laboratories' Portable 4 Channel Chain Hoist Control System shall be a listed product as defined by the Occupational Safety and Hazard Association (OSHA). The unit shall have a **cETLus** mark and be designed and built to the following standards: UL1640, UL508A and C22.2 NO. 14 (Canadian Electric Code).