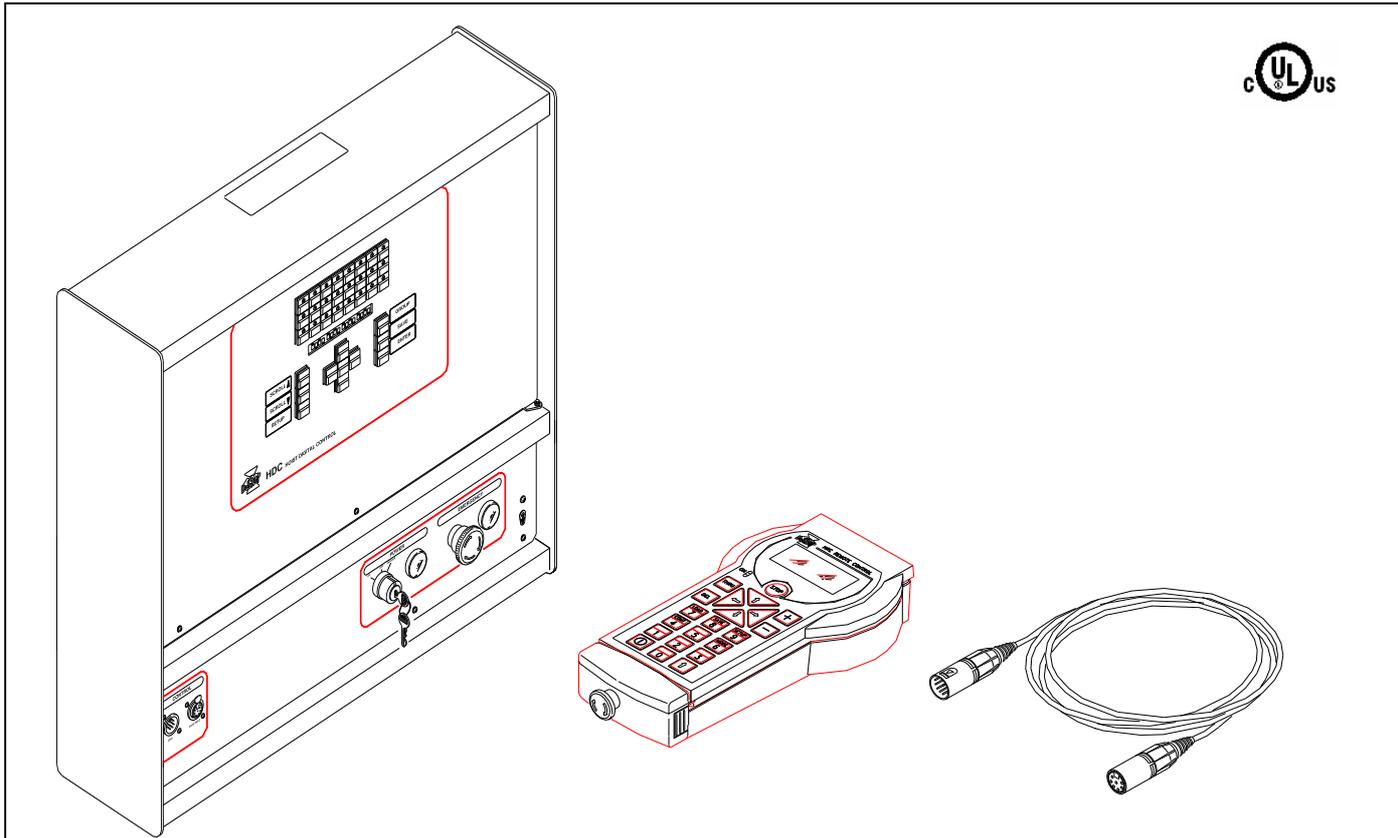




HDC SYSTEM Hoist Digital Control





FEATURES

The **HDC Control System** is ideal for controlling up to **96 motors**. The HDC console is a Surface / Wall Mounted enclosure, consisting of two hinged compartments, one supporting the control elements and the another containing the terminal blocks for the cable connections. The cable entry can be from either top or bottom of the enclosure.

The HDC system incorporates a central HIGH PERFORMANCE PCB, which integrates a number of control facilities, these features allow the operator to choose several levels of control. It is possible to move the hoist motors in the following different modes:

- Local control from the key pad present on the front panel;
- Back Up control from the relevant card present inside the wall mounted enclosure;
- DMX UP/DOWN control (DMX channels used as on/off switches);
- CAN/ICARUS 2000 UP/DOWN-RIGHT/LEFT and feed back positioning control;
- Portable hand held (wired or wireless);

The control signal going to each motorized rigging device is a 2 wires, 24V D.C. that determines the direction of the movement in association with its polarity, but it can also be a CAN signal, in case of positioning controlled units.

The HDC system features are:

- Single or multiple motors selection and movement.
- Recording and playback of preset groups.
- Back up capability.
- Choice of wired or wire-less remote control. Multi-remote locations capability.
- 2 wires, 24V D.C. control to each motor.
- DMX and CAN/ICARUS 2000 inputs added features.

SYSTEM DESCRIPTION

CPU & LOCAL CONTROL ASSEMBLY: it acts as the main interface between the user and the rigging devices and contains the microprocessor that handles the control signals and sends commands to the OUTPUT DRIVER CARD. Present on the front panel are:

- A main KEY SWITCH/SELECTOR with signal lamp and three positions: **OFF**, **CONSOLE** (local keypad and remote hand held directly activating the OUTPUT DRIVER CARD) and **MANUAL** (back/up, manual system). This permits limiting use of the system to authorized personnel.
- An EMERGENCY STOP resettable RED BUTTON, to activate a remote 3 phase relay (supplied by others and normally located within the MAINS DISTRIBUTION CABINET), to interrupt the motor feeds in the event of emergency need.
- A control keypad with alphanumeric LED display, to select units, record groups and manage the different system set up parameters;
- A 24 button keypad, for direct channel selection and clear.
- A master UP/DOWN, RIGHT/LEFT (when using motorized trolleys) and CLEAR push buttons;
- Functions KEY PAD, to change system parameters, select DMX/CAN inputs and configure the addressed.

OUTPUT DRIVER CARD INCLUDING BACK UP

It handles 24 output channels each (max. 4 cards can be mounted in the enclosure for a total of 96 motors control). The output cards are directly controlled by the CPU and provide the physical output signals when activated. In the event of electronics failure the system can be switched to manual back up mode.

PORTABLE HAND HELD (with cable or R.F. wireless)

The unit has the same membrane keypad and back-lit LCD display as the one assembled in the main cabinet. The Wired hand held also includes an EMERGENCY STOP resettable button. The R.F. Wireless Remote is a battery operated unit and the TRANSCIEVER unit can be retrofit to existing HRC systems. When a wireless remote unit is used, it is necessary to install a wall box with the remote EMERGENCY STOP in a convenient location.

TYPICAL HDC RISER DIAGRAM

