

## GNR-H2200 Industrial Controls Training System

### Purpose

The Hampden Model GNR-H2200 Industrial Controls Training System provides students with practical "hands-on" experience in designing, wiring, checking out, and troubleshooting "real-world" motor control systems.

### Description

The Hampden Industrial Controls Training System consists of a ¾" thick melamine covered wood core panel, 36"H x 48"W, on which are mounted interchangeable unitized control modules. The student selects just the components needed for a particular system, secures them on the panel with wing nuts and wires them in accordance with the control diagram. All pushbuttons, contactors and other control components are suitably rated for use with 1HP motors.

### Standard Module List

**GNR-H2200-A** Wood core white melamine work panel 36" x 48" x ¾" complete with connector studs, wing nuts, and feet.

**GNR-H2200-BX** Power Supply.

**GNR-H2200-SP** Induction Motor with prony brake, 1/3 HP three phase complete with base.

**GNR-H2200-G** Control Relay module 220VAC coil with two normally open and two normally closed contacts, and mounting panel.

**GNR-H2200-X** Selector Switch with Pilot Lights module consisting of two ½" pilot lights (one red, one green); one selector switch, three-position; one enclosure and mounting panel.

**GNR-H2200-C** Magnetic Starter module three-pole complete with overload relay, overloads, auxiliary contacts, with 220-240V coil and mounting panel.

**GNR-H2200-C-1** Magnetic Starter module three-pole complete with overload relay, overloads, auxiliary contacts, with 110-120V coil and mounting panel.

**GNR-H2200-D** Control Station module start-stop with surface enclosure and mounting panel.

**GNR-H2200-E** Control Station module start-reverse-stop with surface enclosure and mounting panel.

**GNR-H2200-F** Control Transformer module 220/440 primary 120VAC secondary with fuse block, fuse, and mounting panel.

**GNR-H2200-N** Manual Starter module three-phase with overloads and mounting panel.

**GNR-H2200-R** Drum Switch module rated 1φ, 3φ, and DC operation complete with mounting panel.

**GNR-H2200-V** Programmable Timer with N.O. or N.C. contact. Provides 96 ON/OFF operations every 24 hours. Comes complete with mounting panel.

**GNR-H2200-W** Off Delay Timer, 1-180 seconds with 120VAC coil and mounting panel.

**GNR-H2200-U** Proximity Detector module with one N.O./N.C. 2 wire output complete with mounting panel.

**GNR-22CS** Cord Set

**GNR-H2200** Hampden Manual Set

**HMB-4020** Mobile Bench with Locking Doors

**NOTE:** Unit comes with or without bench.  
(For bench specify **GNR-H2200-BNCH**)

### Optional Modules

**GNR-H2200-H** Float switch module with two-pole H.D. switch and mounting panel.

**GNR-H2200-J** Selector switch module consisting of one surface enclosure with one start-stop selector switch, one three-pole position switch and mounting panel.

**GNR-H2200-L** Timer relay module complete with two terminal strips and mounting panel.

**GNR-H2200-M** Pilot Light module consisting of two ½" pilot lights (one red, one green), one surface enclosure, and mounting panel.

**GNR-H2200-P** Magnetic Reversing Starter module three-pole complete with overload relay, overloads, and mounting panel.

**GNR-H2200-Q** Limit Switch module with one N.O. and one N.C. contact and mounting panel.

**GNR-H2200-S** Induction Motor 1/3HP three-phase complete with base.

**GNR-H2200-VFD** Variable Frequency Drive module

**GNR-H2200-DCMC** Solid State DC Motor Controller

**GNR-H2200-ML** Micro Logix 1000 PLC module, 10 AC inputs, 6 relay contact outputs



**GNR-H2200-LR** Latching Relay

**GNR-H2200-AR** Alternating Relay

**GNR-H2200-MX** GE Pilot Light module

**GNR-H2200-ML-2** Micro Logix 1200 PLC module, 24 AC inputs, 16 relay contact outputs

**GNR-H2200-SPM** Single Phase Motor

**GNR-H2200-DCM** Shunt Wound DC Motor

A typical complement of Hampden Model GNR-H2200-BNCH modules would consist of:

- |                   |                 |
|-------------------|-----------------|
| (1) GNR-H2200-A   | (1) GNR-H2200-N |
| (1) GNR-H2200-BX  | (1) GNR-H2200-R |
| (1) GNR-H2200-SP  | (1) GNR-H2200-V |
| (1) GNR-H2200-G   | (1) GNR-H2200-U |
| (1) GNR-H2200-X   | (1) GNR-H2200-U |
| (1) GNR-H2200-C   | (1) GNR-22CS    |
| (1) GNR-H2200-C-1 | (1) Manual Set  |
| (1) GNR-H2200-D   | (1) HMB-4020    |
| (1) GNR-H2200-E   |                 |
| (3) GNR-H2200-F   |                 |



**MODEL GNR-H2200-BNCH**

Dimensions (w/Bench): 76"H x 48"W x 29"D

Shipping Weight: 500 lbs.

All Hampden units are available for operation at any voltage or frequency



**Hampden**  
ENGINEERING CORPORATION