

Industrial Control Training Systems

Educational Training Equipment for the 21st Century

Bulletin 254-5H

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-H2200A Wood core white melamine work panel 36" x 48" x ¾" complete with connector studs, wing nuts, and feet.

GNR-H2200BX Power Supply.

GNR-H2200SP Induction Motor with prony brake, 1/3 HP three phase complete with base.

GNR-H2200G Control Relay module 220VAC coil with two normally open and two normally closed contacts, and mounting panel.

GNR-H2200X Selector Switch with Pilot Light module consisting of two ½" pilot lights (one red, one green); one selector switch, three-position; one enclosure and mounting panel.

GNR-H2200C Magnetic Starter module three-pole complete with overload relay, overloads, auxiliary contacts, and mounting panel.

GNR-H2200D Control Station module start-stop with surface enclosure and mounting panel.

GNR-H2200E Control Station module start-reverse-stop with surface enclosure and mounting panel.

GNR-H2200F Control Transformer module 220/440 primary 120VAC secondary with fuse block, fuse, and mounting panel.

GNR-H2200N Manual Starter module three-phase with overloads and mounting panel.

GNR-H2200R Drum Switch module rated 1φ, 3φ, and DC operation complete with mounting panel.

GNR-H2200V Programmable Timer with N.O. or N.C. contact. Provides 96 ON/OFF operations every 24 hours. Comes complete with mounting panel.

GNR-H2200W Off Delay Timer, 1-180 seconds with 120VAC coil and mounting panel.

GNR-H2200U Proximity Detector module with one N.O. and one N.C. contact complete with mounting panel.

GNR-H2200T Sequence Control Timer module with two N.O. or N.C. contact 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-H2200H Float switch module with two-pole H.D. switch and mounting panel.

GNR-H2200J Selector switch module consisting of one surface enclosure with one start-stop selector switch, one three-pole position switch and mounting panel.

GNR-H2200L Timer relay module complete with two terminal strips and mounting panel.

GNR-H2200M Pilot Light module consisting of two ½" pilot lights (one red, one green), one surface enclosure, and mounting panel.

GNR-H2200P Magnetic Reversing Starter module three-pole complete with overload relay, overloads, and mounting panel.

GNR-H2200Q Limit Switch module with one N.O. and one N.C. contact and mounting panel.

GNR-H2200S Induction Motor 1/3HP three-phase complete with base.

GNR-H2200VFD Variable Frequency Drive module
GNR-H2200DCMC Solid State DC Motor Controller

GNR-H2200ML Micro Logix 1000 PLC module, 10 AC inputs, 6 relay contact outputs

GNR-H2200G-2C Same as GNR-2200G but includes an interchangeable 120 VAC coil



Optional Modules

GNR-H2200C-2C Same as GNR-H2200C, but includes an interchangeable 220 VAC coil

GNR-H2200LR Latching Relay

GNR-H2200AR Alternating Relay

GNR-H2200MX GE Pilot Light module

GNR-H2200ML-2 Micro Logix 1200 PLC module, 24 AC inputs, 16 relay contact outputs

GNR-H2200SPM Single Phase Motor

GNR-H2200DCM Shunt Wound DC Motor

A typical complement of Hampden **Model**

GNR-H2200-BNCH modules would consist of:

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|------------------|-----------------|
| (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 |
| (2) GNR-H2200-C | (1) GNR-H2200-T |
| (1) GNR-H2200-D | (1) GNR-22CS |
| (1) GNR-H2200-E | (1) Manual Set |
| (3) GNR-H2200-F | (1) HMB-4020 |



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