



Technology:

- CMOS components for low power consumption and extensive use of Surface Mount components.
- Employing In-System-Programming technology for EPLD.

Power Requirement:

Isolated unregulated 12 VDC (1 A) or 24 VDC (1/2 A).

On-board Power Supplies:

Switching mode, +5 VDC for digital electronics.

System Status Indicators:

- Control / Integrity check indicator.
- Power ON indicator.

Data and Address Bus:

- 40-pin ribbon cable connection daisy-chained to a maximum of 14 DI/DO board combinations.

Digital Outputs:

- Number of Inputs: 32 relay outputs with Output indicator on each digital output.
- Control Output Configurations: Isolated Discrete control output relays, Trip/Close, Raise/Lower, Set/Reset, Pattern Controls, Relay fail to OFF, Relay fail to last commanded position.
- Control Security: Single component failure protection, Master Trip/Close relays, relay driver input status check back for point selection confirmation, Double point select-before operate. Either a Malfunction of the system (detected by the watchdog), or the failure of a point selection confirmation shuts down the control module.
- Remote/Local Switch: From main board to enable/disable controls.
- Control Functions: ON/OFF, Timed ON/OFF (Pulse Duration of 1 ms resolution), Variable duty cycle pulse output with variable repetition rate (Pulse Train of 1 to 254 or continuous, 1 ms resolution), Pattern controls (a group of contiguous outputs).
- Contact Rating: 1 Amp at 110 VDC.
- Interposing Relay Connections: 2 sets of relay output DB37 sockets for ease of interposing relay connections.

Operating Environment:

- Temperature Range: -40 to +85 degrees Celsius.
- Humidity: < 95%, non-condensing.

Physical Dimensions:

- 19.0 x 3.5 inches for 19" standard rack mount or panel mount.