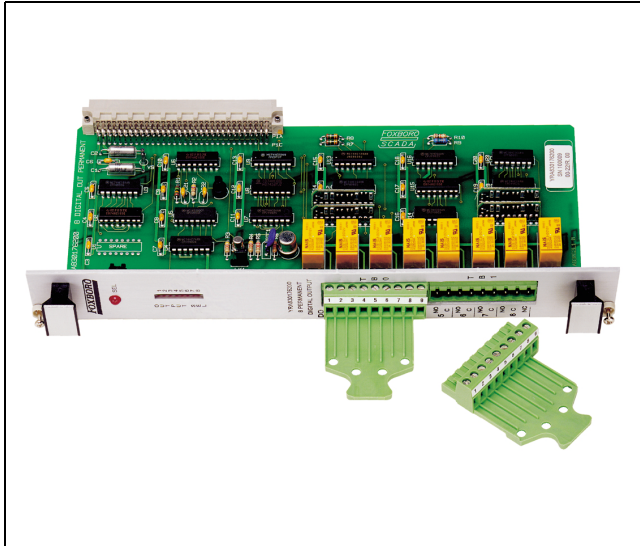


I/A Series® Remote Terminal Unit (RTU)

RTU 20 – 8 Permanent Digital Output Module



The 8 Permanent Digital Output module is a half-size electronic board in the I/A Series RTU 20 designed to drive 8 steady digital outputs through voltage-free bistable relay contacts.

Field devices can be directly driven by on-board relays having gold-plated output contacts and an expected lifetime of 10^7 operations. Each relay provides a 1500 Vrms coil contact isolation.

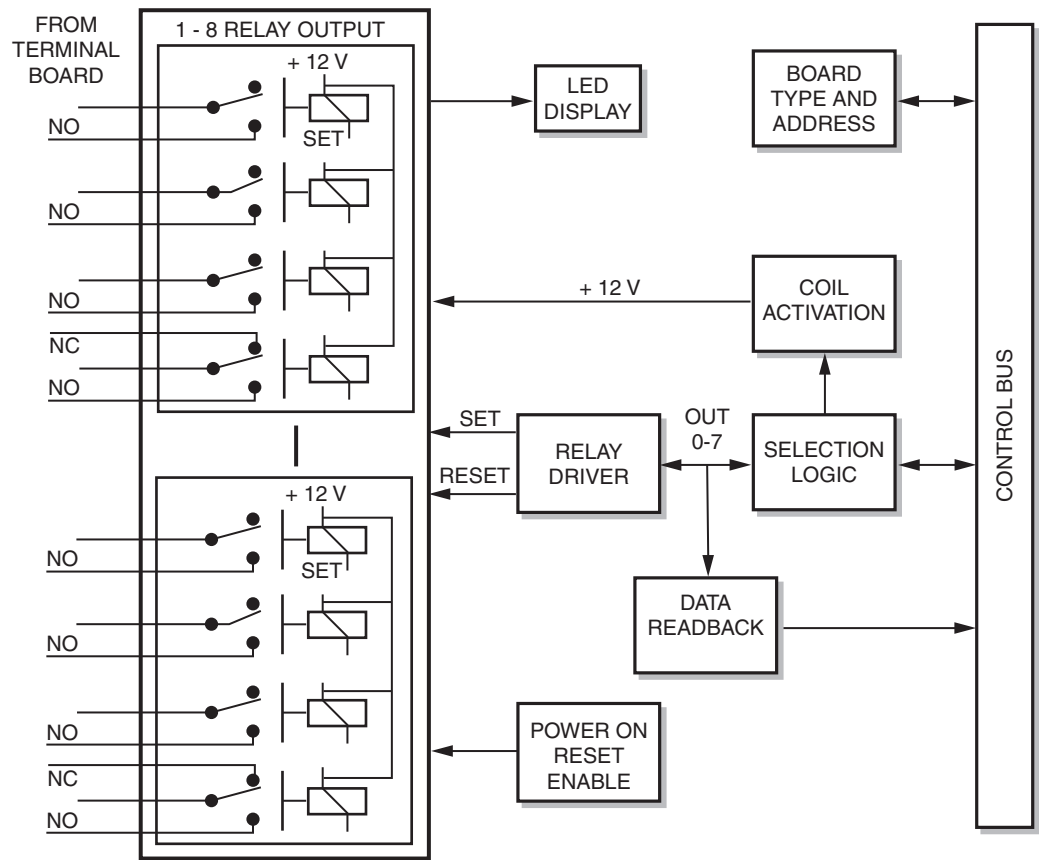
Two outputs have SPDT (single-pole, double-throw: Common + NO + NC) contacts, while the other six are SPST (single-pole, single-throw: Common + NO).

When the SCADA master station transmits a control output message to the RTU, the output relay activation can be executed immediately or after a “check-back” validity verification (with a 12-second time-out between the “select/check” and “operate” messages).

The module can be programmed to set the output contacts in “reset condition” or “hold last state” mode at power-up.

Several LEDs, located on the module’s front edge, provide local fault indication and digital output status (one LED for each output), while an optional alphanumeric LCD display (mounted on the RTU cabinet) can monitor the module status, on request.

8 PERMANENT DIGITAL OUTPUT MODULE – BLOCK DIAGRAM



SPECIFICATIONS

Outputs 8 steady voltage-free contacts	Maximum Switching Capacity (UL/CSA rating) dc ONLY 60 W, 48 V
Maximum Power Requirements +5 V dc/9 mA, +12 V dc/25 mA (on relay activation)	Operating Temperature –25°C to +70°C
Isolation Voltage 1500 Vrms (relay coil contacts), 1000 Vrms (contact-contact)	Field Cable Connection Removable screw-terminal blocks on module's front edge
Relay Specification Expected lifecycle: 10 ⁷ operations, gold-plated contacts	Diagnostics and Status LED indicators on module's front edge
Maximum Load (UL/CSA Rating) 2 A at 30 V dc	

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