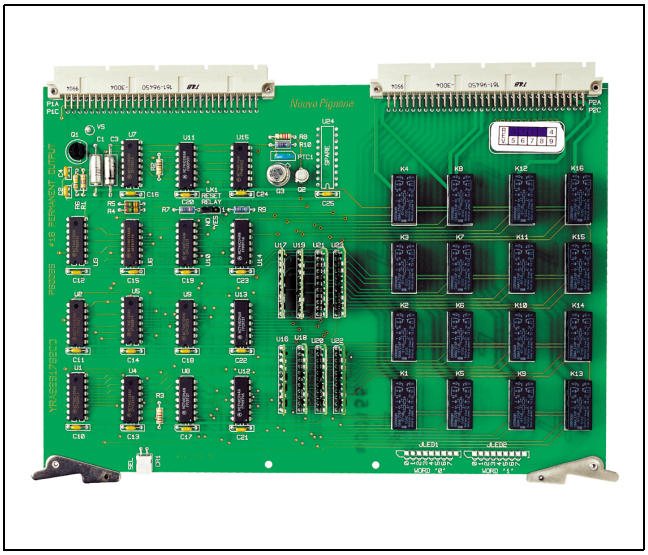
FOXBORO®

PSS 21H-8F14 B4

I/A Series® Remote Terminal Unit (RTU)
RTU 20 – 16 Permanent Digital Output Module



The 16 Permanent Digital Output module is a full-size electronic board in the I/A Series RTU 20 designed to drive 16 steady digital outputs through voltage-free bistable relay contacts.

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

Four outputs have SPDT (single-pole, double-throw: Common + NO + NC) contacts, while the other twelve 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).

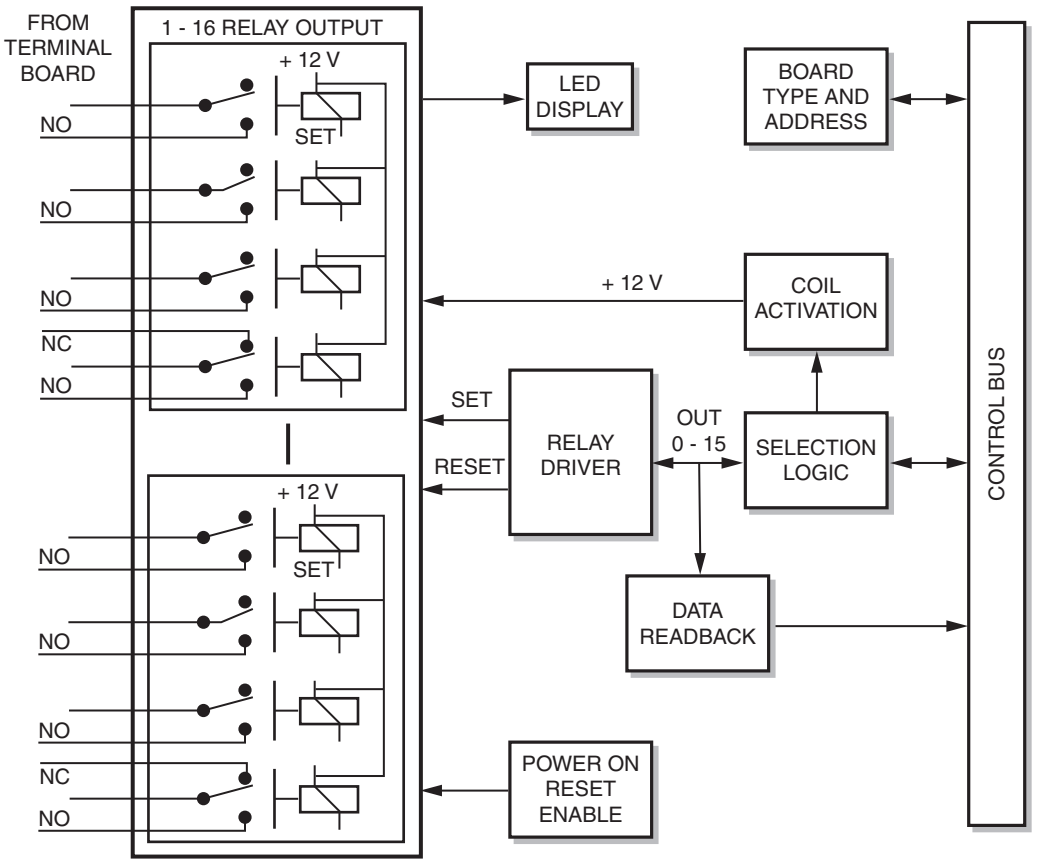
The module can be programmed to set the output contacts in “reset condition” or “hold last state” mode at power-up.

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.

Invensys™

Product Specifications

16 PERMANENT DIGITAL OUTPUT MODULE – BLOCK DIAGRAM



SPECIFICATIONS

Outputs
16 steady voltage-free contacts

Maximum Power Requirements
+5 V dc/16 mA, +12 V dc/25 mA (on relay activation)

Isolation Voltage
1500 Vrms (relay coil contacts), 1000 Vrms (contact-contact)

Relay Specification
Expected lifecycle: 10^7 operations, gold-plated contacts

Maximum Load (UL/CSA Rating)
2 A at 30 V dc

Maximum Switching Capacity (UL/CSA Rating)
dc ONLY
60 W, 48 V

Operating Temperature
–25°C to +70°C

Field Cable Connection
Removable screw-terminal blocks on dedicated terminal board connected to module's backplane

Diagnostics and Status
LED indicators on module's front edge

The Foxboro Company
33 Commercial Street
Foxboro, Massachusetts 02035-2099
United States of America
http://www.foxboro.com
Inside U.S.: 1-508-543-8750 or 1-888-FOXBORO (1-888-369-2676)
Outside U.S.: Contact your local Foxboro representative.

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