16D0 Digital Output Module for the MOSCAD RTU



FEATURES/BENEFITS

Magnetically-Latched Relays

The magnetic-latched relay module has 16 latchtype relays. These relays have two coils each plus a small internal magnet. The relay is closed by briefly energizing the Set coil-the magnet then keeps the relay closed. Similarly, the relay is opened by briefly energizing the Reset coil.

This type of relay module should be used when prolonged operation from the backup battery power source is expected. There is no sustained current drain from the battery to keep the relay(s) closed.

Data Output

Under the control of the defined Application Program, the CPU module in the RTU will move the current status of the data variables in the CPU module that are associated with the relays to the 16DO module via the motherboard. The 16DO module then opens or closes relays according to the status of this data.

► The application in the CPU module determines the state of the output relays using data obtained throughout the system.

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Electrically-Energized Relays

The electrically-energized relay module has 16 conventional relays. These relays have a single coil each. The relays remain closed for as long as their coils are energized.

► This type of relay module allows user control when it is mandatory that the relays open when power is lost or control is disrupted.

Activation Feedback

Both types of 16DO modules have secondary contacts on the relays that provide positive feedback that the relay has closed.

► This feedback may be treated as digital inputs and incorporated into the Application when required.

Packaging

The module is packaged in a plastic housing that plugs, and locks, into the motherboard. Wire connections (up to 14 ga. wire) are made to removable connectors on the face of the module. No jumpers, calibration pots, etc. are located on the module (any calibration is done electronically via software from the ToolBox program.)

► Modularity allows the MOSCAD RTU to be easily expanded as system requirements change and makes field module replacement quick and easy.



The 16 Digital Output module is an accessory to the MOSCAD RTU family that provides 16 relay outputs that may be connected to, and used to control other on-site electrical devices. Examples includes lighting circuits, control circuits and interpose relays.

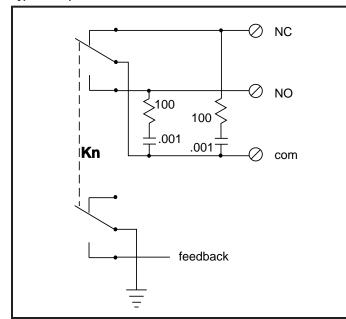
16D0 Digital Output Module

SPECIFICATIONS

		GENERAL SPECIFICATIONS		
Order:	Plant Installed:	Magnetically-latched–V516; Electrically-energized–V616		
	Field Installed:	Magnetically-latched–FRN1492; Electrically-energized–FRN1491		
Output:	16 relays, all either	Magnetically-Latched (ML) or Electrically-Energized (EE)		
Contact Rating:	60W or 125 VA, no	ot to exceed 2 amp and 250 volts		
Output Protection:	1 kV between con	tacts, 1.5 kV between contact & coil per ANSI C37.90.1-1989		
Diagnostic:	20 LEDS: 16 for or	utputs, 1 each for Module Fail and No Clock		
Power:	5 Vdc: 5 ma (ML), 25 ma (EE)			
	12 Vdc: ML: 5 ma (45 ma with LEDs on) EE: 260 ma (300 ma with LEDs on)			
Environment:	Humidity:	0 to 90% @ +50°C		
	Temperature:	-30 to +60°C		

Connections Chart

Typical Output Circuit



erm	Function	Term	Function
	K1 NO	13	K8 NO
	K1 NC	14	K5-8 com
	K2 NO	15	K9 NO
	K2 NC	16	K10 NO
5	K3 NO	17	K11 NO
i	K3 NC	18	K12 NO
	K4 NO	19	K9-12 com
	K4 NC	20	K13 NO
	K1-4 com	21	K14 NO
.0	K5 NO	22	K15 NO
1	K6 NO	23	K16 NO
2	K7 NO	24	K13-16 com

Specifications subject to change without notice.



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