



DMUX

PWM To 4 or 8 Addressable Relays

The DMUX is a selectable output controller designed to expand the output capacity of an energy management or process controller. The DMUX has up to eight output relays which can be individually addressed by a single pulse width modulated input signal. Common (C), Normally Open (NO), and Normally Closed (NC) connections are available for each output. Three position On/Off/Auto jumpers are standard and allow manual override at the DMUX. It converts a relay, transistor or Triac input signal to operate an appropriate relay output based on

the duration of the signal. Each relay output of the DMUX can be individually addressed by the controlling microprocessor. The relay output has an LED indicator for a visual verification of operation. There are also LED indicators to show the presence of power to the DMUX and the input pulse. This device is DIP switch selectable for sequencing or controlling up to 8 relays. **DMUX-4-J:** Sequence 4 relays or One of 4 or Individual Relay Control or Rooftop Unit Control. **DMUX-8-J:** Sequence 8 relays or One of 8 relays or Individual Relay Control or Rooftop Unit Control. **DMUX-4N:** Sequence 4 relays or One of 4. **DMUX-4S:** Sequence 4 relays or Reverse Sequence 4 relays or Rooftop Unit 4 relay control. **DMUX-8S:** Sequence 8 relays or Rooftop Unit 8 relay control or Rooftop Unit 5 relay control.

Applications: Input or Output Expander / Multiplexer, Building Automation Systems, Process Control Systems, HVAC Unit Control, Sprinkler Valve Operation, Lighting Control

The DMUX is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, www.workaci.com.

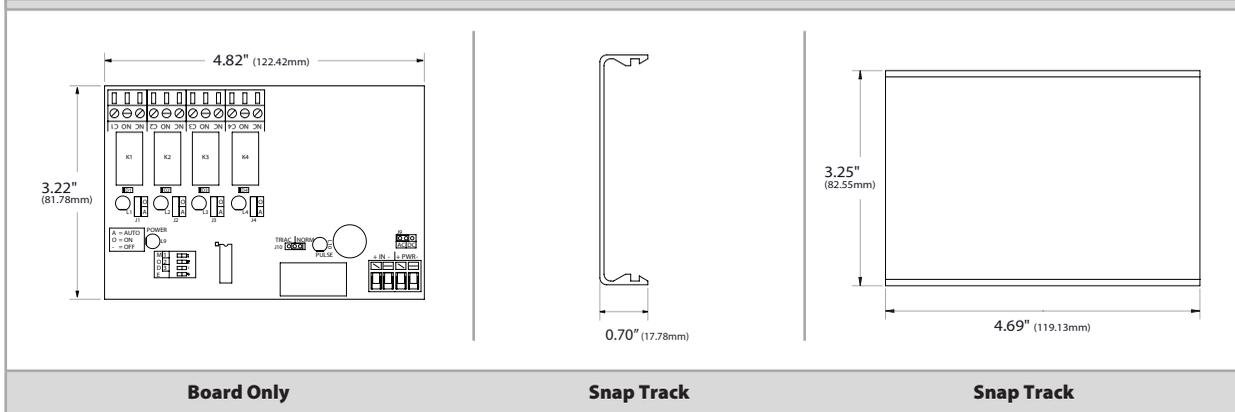
PRODUCT SPECIFICATIONS

Supply Voltage:	24 VAC or 24 VDC, (+/- 10%), 50/60 Hz
Supply Current:	260 mA maximum
Input Pulse Source:	Relay Contact Closure, Transistor or Triac (jumper selectable)
Input Pulse Trigger Level:	5 to 24 volts AC or DC, 20 mA maximum
Input Pulse Timing:	See Ordering Grid
Off Time Between Pulses:	10 milliseconds minimum
Digital Output Type:	Form "C" Relays
Relay Contact Rating:	2A maximum @ 24 VDC
Relay Electrical Life:	100,000 operations minimum
Relay Mechanical Life:	1,000,000 operations
Output Relay:	4 or 8 (See Ordering Grid) N.O. and N.C. contacts
Relay Override Jumpers:	Three-position (ON/OFF/AUTO)
Connections:	45° Captive screw Terminal Blocks
Wire Size:	12 (3.31 mm ²) to 22 AWG (0.33 mm ²)
Terminal Block Torque Rating:	0.5 Nm (Minimum); 0.6 Nm (Maximum)
Operating Temperature Range:	35 to 120°F (1.7 to 48.9°C)
Operating Humidity Range:	10 to 95% non-condensing
Storage Temperature:	-20 to 150°F (-28.9 to 65.5°C)
Snaptrack Material:	Polyvinyl Chloride (PVC)
Snaptrack Flammability Rating:	UL94 V-0
Product Dimensions:	(L) 4.825" (W) 3.22" (H) 1.00" (122.55 x 81.92 x 25.4 mm)
Product Weight (4 Relay Models):	0.36 lbs. (0.1616 Kg)
Product Weight (8 Relay Models):	0.45 lbs. (0.2041 Kg)
Agency Approvals:	RoHS2, WEEE





DIMENSIONAL DRAWING



STANDARD ORDERING

Model # Example: **DMUX-4-J -OR- 106318**

Model #	Item #	Firmware Version #	# of Relays	Input Pulse
DMUX-4-J	106318	0180100C.OBJ	4	0.5S or 1S Resolution
DMUX-8-J	102425	0180100C.OBJ	8	0.5S or 1S Resolution
DMUX-4N	133907	0130Y0B.HEX	4	Novar™ 0.59-2.93
DMUX-4S	128206	0326y0a.HEX	4	Solidyne™ Fast 4 Pulse
DMUX-8S	129609	01804100.OBJ	8	Solidyne™ Fast 5 Pulse

ACCESSORIES

Model # Example: **A/DO008 -OR- 142583**

Model #	Item #	Description
A/DO008	142583	Transient Voltage Suppressor, Bi-directional, 56 VAC/DC, 1500W
A/DRC 4.69 X 3.25	142620	DIN Rail Adapter Kit

