



DMUX

Pulse Width Modulated Input to Relay Output

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.

The DMUX is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI's Sensors & Transmitters catalog or can be found on ACI's web site, which is: www.workaci.com.



SPECIFICATIONS	
Supply Voltage	24 VAC or 24 VDC, +/- 10%
Supply Current	260 mA maximum
Pulse Source (Input)	Relay, Transistor or Triac (jumper selectable)
Pulse Trigger Level (Input)	5 to 24 volts AC or DC, 20 mA maximum
Off Time Between Pulses	10 milliseconds minimum
Program	J (Standard) Sequence 4 or 8 relays, One of 4 or 8 relays, Individual Relay Control, Rooftop Unit Control
	N Sequence 4 or 8 relays, One of 4 or 8 relays (Novar™ 4 pulse)
	S Sequence 4 relays or Reverse Sequence 4 relays or Rooftop Unit 4 relay control (Solidyne™ 4 pulse)
	S Sequence 8 relays or Rooftop Unit 8 relay control or Rooftop Unit 5 relay control (Solidyne™ 8 pulse)
Relay Contacts	Type: Form C, Gold-clad silver
	Rating: 2 amp maximum resistive @ 24 volts
	Electrical Life: 100,000 operations @ 1 amp
	Mechanical Life: 10 million operations
	Output Relays: 4 or 8 N.O. and N.C. contacts
	Relay Override Jumpers: Three-position (ON/OFF/AUTO)
Operating Temp	32 to 120°F (0 to 48.9°C)/10 to 95% non condensing

ORDERING

Please select one Relay Quanity (A) & one Program (B).

A Relay Quanity	B Program
○ 4 (Four Relays) ○ 8 (Eight Relays)	 J (Standard) Sequence 4 or 8 relays, One of 4 or 8 relays, Individual Relay Control, Rooftop Unit Control N (Sequence 4 or 8 relays, One of 4 or 8 relays (NovarTM 4 pulse)) S (Sequence 4 relays or Reverse Sequence 4 relays or Rooftop Unit 4 relay control (SolidyneTM 4 pulse))
	S (Sequence 8 relays or Rooftop Unit 8 relay control or Rooftop Unit 5 relay control (SolidyneTM 8 pulse))

BUILD PART NUMBER

After completing (A) & (B) from the above table, fill in the Part Number Table below. An example part number is offered.

DMUX

SENSOR SERIES A

EXAMPLE: DMUX4S