

**FEATURES**

- Dual channel phase cut to analog output
- Dual channel voltage/ mA to voltage output
- Jumper selectable Sequencing option
- Direct or reverse options per output

**APPLICATIONS**

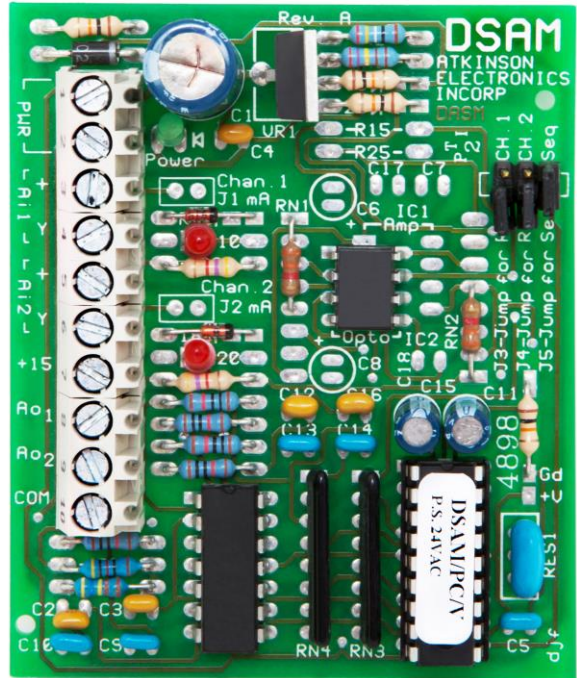
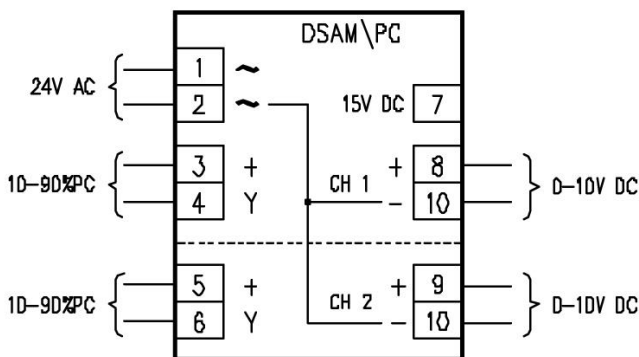
- Dual phase cut to 0 to 10VDC conversion
- Phase cut to sequenced 0 to 10VDC outputs
- 0-10VDC to sequenced 0 to 10VDC o utputs
- Dual 0 to 10VDC damper or valve operation

**DESCRIPTION & OPERATION**

The DSAM is a 2 channel analog to analog controller module. It is available in two versions; voltage and milli-Amp input to 0 to 10VDC outputs, and phase cut input to 0 to 10VDC outputs. The DSAM has the option for sequencing its two outputs from a single input signal (channel 1). The DSAM uses state of the art micro controller technology that provides superior system performance. The DSAM is useful when interfacing to 0 to 10VDC damper actuators, and or valves.

The DSAM's 24VAC input uses a half-wave rectifier configuration, (terminal 2 is board common), which is filtered and regulated to provide power for the on-board circuitry and to supply a 15VDC reference voltage on terminal 7. The DSAM uses an embedded micro controller to interpret the input signals and provide a corresponding 0 to 10VDC output (Minimum 1KV load impedance) signals. The analog inputs may be configured to accept 0-10VDC or 0 to 20mA by making a jumper selection on the voltage version. The phase cut version accepts a 10 to 90% phase cut signal.

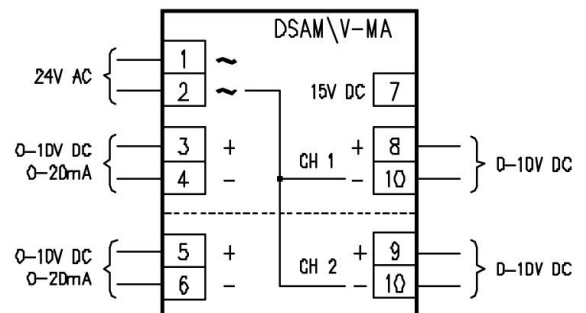
**WIRING CONFIGURATION PHASE CUT**



**SPECIFICATIONS**

SIZE:	2.75"L x 3"W x 1.1"H
MOUNTING:	3" RDI Snap Track (supplied)
POWER:	24VAC, ± 10%, 50/60Hz, 2VA
INPUTS:	10 to 90% phase cut 0-20mA or 4-20mA 0 to 10V or 2 to 10VDC
INPUT IMPEDANCE:	Phase cut ≥ 3.6KΩ 10VDC ≥ 10KΩ 20mA ≥ 250KΩ
AUX VOLTAGE REF:	15VDC @ 100mA maximum
OUTPUT:	0 to 10VDC (Minimum 1KΩ load impedance)
ACTION:	Direct or reverse (Jumper selectable per channel)
AMBIENT TEMP:	0 to 50°C

**WIRING CONFIGURATION VOLTAGE/ MA**



ORDERING INFORMATION

PHYSICAL CONFIGURATION

DSAM/XXX

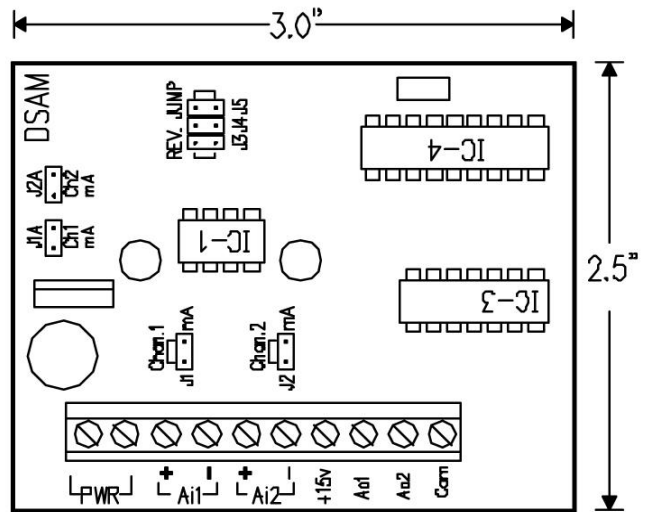
└─ Input Option Code

INPUT ORDERING CODE

V-mA 0 to 10VDC, 0 to 20mA inputs  
 PC 10 to 90% phase cut (isolated)

JUMPER DEFINITION

- J1 Channel 1 selects mA input option
- J2 Channel 2 selects mA input option
- J1a Channel 1 selects 4mA or 2VDC input option
- J2a Channel 2 selects 4mA or 2VDC input option
- J3 Channel 1 direct/ reverse jumper
- J4 Channel 2 direct/ reverse jumper
- J5 Sequencing the 2 outputs, single input (CH1)

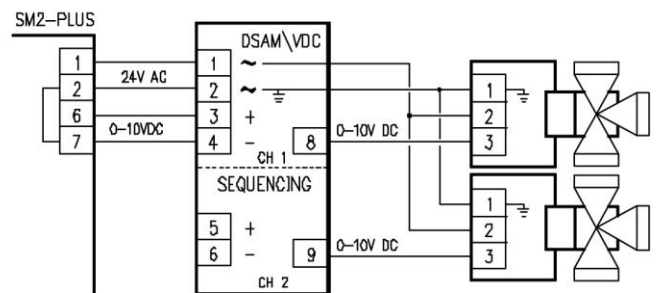
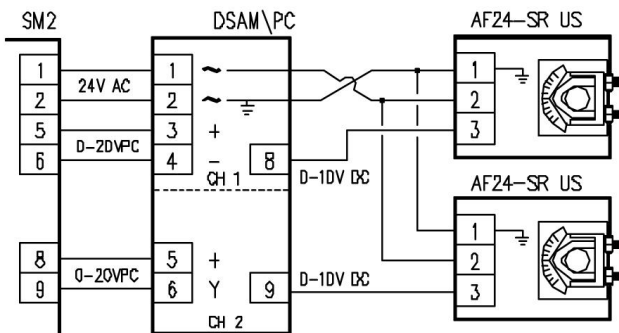


ORDERING CODE EXAMPLES

DSAM/PC 10 to 90% phase cut 9 inputs 0 to 10VDC outputs  
 DSAM/V-mA 10VDC or 20mA input to dual 0 to 10VDC outputs

TYPICAL PHASE CUT APPLICATION

TYPICAL VOLTAGE SEQUENCING APPLICATION



The DSAM/PC version is used to convert two phase cut signals to two 0 to 10VDC signals to drive two actuators or valves.

The DSAM/V-mA or DSAM/PC is field configured for a single input signal with sequencing outputs. Jp3 & Jp4 select reverse mode for channel's 1 & 2, Jp5 selects sequencing operation.

