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Joerger ENTERPRISES, INC.

MODEL DAC16

16 CHANNEL, 12 BIT DIGITAL TO ANALOG CONVERTER

FEATURES:

- 16 CHANNELS IN A SINGLE WIDTH CAMAC MODULE
- 12 BIT RESOLUTION
- INPUT DATA REGISTERS WHICH ARE REREADABLE
- EIGHT CHANNEL OPTION, DAC-8L

The JOERGER ENTERPRISES, INC. MODEL DAC-16 is a 16 channel, 12 bit, digital to analog converter packaged in a single width CAMAC module. It offers the lowest per channel cost 12 bit converter available. The module contains a 16 word data memory where the information to be converted is stored. A valuable feature of this module is that this data register can be read out onto the dataway. This provides the ability to confirm the data stored is correct. The output of the memory is continually scanned and each channel's data is converted to an analog signal. This analog signal is stored with 12 bit accuracy. Care is taken to insure break before make during channel switching thus eliminating cross talk between channels. Accuracy is maintained by the use of a tracking regulator for the ± 15 volt analog supplies.

To insure safe system startup the memory is reset to zero at power up and in response to Initialize Z, or Clear C. This feature is especially important in control applications.

The standard output is 0 to +10 volts at 5ma, however internal jumpers are provided to select ranges of 0 to 5, ± 5 or ± 10 volts. An identity word is provided to identify the module and the output range for which it is set. Bipolar ranges use two's compliment data inputs.

The module is also offered with eight channels brought out via front panel 2 pin LEMO connectors. This is the MODEL DAC 8L. The normal connector for the DAC-16 is a 50 pin front panel mounted AMP 552118-1. As an option it is also available with a rear P.C. edge connector that is compatible with the Viking 3VH18.

SPECIFICATIONS:

OUTPUTS:

CHANNELS	DAC-16, 16 Channels DAC-8L, 8 Channels
RESOLUTION	12 Bits

RANGE	0 to +10 volts at 5ma standard; +5, ± 5 or ± 10 volt ranges at 5ma are strap selectable
ACCURACY	± 1/2 LSB

CAMAC COMMANDS:

0_{Ai}	Reads out data stored for that channel from memory on Read lines R1-12
1_{15}	Reads out the module's identity and the output range for which it is set, to provide a complete description of the module. This is done with a six digit BCD word DAC-8L= 00.207.X DAC-16= 00.208.X X = Output range which is read out on R1 and R2

Range	X	R2	R1
+10v	0	0	0
+ 5v	1	0	1
± 10v	2	1	0
± 5v	3	1	1

16_{Ai}	Writes the data to be converted into memory from Write lines W1-12
(Z+C)S2 & Power Up	Resets data registers to zero
X RESPONSE	All valid commands generate an X=1 response
Q RESPONSE	All valid commands generate a Q=1 response

NOTE; Ai = Channels 0 to 15 for the DAC-16 and Channels 0 to 7 for the DAC-8L

INDICATORS:	"N"	N light indicates the module is addressed
	"ACTIVE"	Active light indicates the outputs are valid
TEMPERATURE RANGE:	0° C to 50° C	
POWER REQUIREMENTS:	+6v, 480ma; +24v, 75ma; -24v, 110ma	
SIZE:	Single width CAMAC module	
CONNECTOR:	AMP 552118-1, mating connector AMP 229974-1 or equiv.	
OPTIONS:	1. DAC-8L, the DAC-8L is available with individual output connectors for each channel. They are LEMO RA0302 or equivalent 2. Rear Connector, the Model DAC-16 is available with a rear P.C. connector compatible with the Viking 3VH18 or equivalent	

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