

# **SPECIFICATIONS**

**CIO-DAC08/16**

**CIO-DAC16/16**

Analog Outputs



**MEASUREMENT  
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## Power Consumption

+5V supply	
CIO-DAC16/16	1.8 A typical, 2.25 A max
CIO-DAC08/16	1.3 A typical, 1.7 A max

## Analog Output

Resolution	16 bits
Number of channels	
CIO-DAC16/16	16 Voltage Outputs
CIO-DAC08/16	8 Voltage Outputs
D/A type	AD660BN
Voltage Ranges	$\pm 5V$ , $\pm 10V$ , 0 to 5V, 0 to 10V, jumper-selectable
Offset error	Adjustable to zero
Gain error	Adjustable to zero
Differential nonlinearity	$\pm 1$ LSB max
Integral nonlinearity	$\pm 1$ LSB max
Monotonicity	Guaranteed monotonic to 15 bits over temperature
Gain drift (DAC)	$\pm 15$ ppm/ $^{\circ}C$ max
Bipolar offset drift (DAC)	$\pm 5$ ppm/ $^{\circ}C$ max
Unipolar offset drift (DAC)	$\pm 3$ ppm/ $^{\circ}C$ max
Throughput	System dependent
Slew Rate	2.8V/ $\mu s$ Typical
Settling time (20V step to .0008%)	12 $\mu s$ typ, 19 $\mu s$ max
Settling time (10V step to .0008%)	6 $\mu s$ typ, 9 $\mu s$ max
Current Drive	$\pm 5$ mA min.
Output resistance (OP-27)	0.1 ohm max.
Output short-circuit duration	40 mA min. Continuous
Miscellaneous	Double-buffered output latches Update DACs individually or all DACs simultaneously (jumper-selectable) Power up and reset, all DAC's cleared to 0 volts (jumper selects bipolar or unipolar zero)

## Environmental

Operating temperature range	0 to 70 $^{\circ}C$
Storage temperature range	-40 to 100 $^{\circ}C$
Humidity	0 to 90% non-condensing

Measurement Computing Corporation  
16 Commerce Boulevard,  
Middleboro, Massachusetts 02346

(508) 946-5100

Fax: (508) 946-9500

E-mail: [info@measurementcomputing.com](mailto:info@measurementcomputing.com)  
[www.measurementcomputing.com](http://www.measurementcomputing.com)