



AD976/AD976A Data Sheet Revision

Data Sheet Specification Comparison

From Rev. C (Current)

To Rev. D (New)

AD976/AD976A

AD976A—SPECIFICATIONS (−40°C to +85°C, F_S = 200 kHz, Ref = Internal Reference, V_{DIG} = V_{ANA} = +5 V unless otherwise noted)

Parameter	AD976AA			AD976AB			AD976AC			Units
	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
RESOLUTION	16			16			16			Bits
ANALOG INPUT										
Voltage Range	±10			±10			±10			V
Impedance	13			13			13			kΩ
Capacitance	22			22			22			pF
THROUGHPUT SPEED										
Complete Cycle	5			5			5			μs
Throughput Rate	200			200			200			kHz
DC ACCURACY										
Integral Linearity Error	±3			±2			±3			LSB ¹
Differential Linearity Error	−2 +3			−1 +1.75			±2			LSB
No Missing Codes	15			16			15			Bit
Transition Noise ²	1.0			1.0			1.0			LSB
Full-Scale Error ^{3,4}	±0.5			±0.25			±0.5			%
Full-Scale Error Drift	±7			±7			±7			ppm/°C
Full-Scale Error, Ext. REF = 2.5 V	±0.5			±0.25			±0.5			%
Full-Scale Error Drift, Ext. REF = 2.5 V	±2			±2			±2			ppm/°C
Bipolar Zero Error ⁴	±10			±10			±15			mV
Bipolar Zero Error Drift	±2			±2			±2			ppm/°C
Power Supply Sensitivity										
V _{ANA} = V _{DIG} = V _D = 5 V ± 5%	±8			±8			±8			LSB

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Full-Scale Error Drift, Ext. REF = 2.5 V	±2			±2			±2			ppm/°C
Bipolar Zero Error ⁴	±10			±10			±15			mV
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Power Supply Sensitivity										
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