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E Series Multifunction DAQ – 500 kS/s, 12-Bit, 16 or 64 Analog Inputs

Nominal Range (V)	Absolute Accuracy										Relative Accuracy				
	% of Reading		Offset (mV)		Noise + Quantization (mV)				Temp Drift (%/°C)	Absolute Accuracy at Full Scale (mV)		Resolution (mV)			
					Single Pt.		Averaged					Single Pt.		Averaged	
	24 Hrs	1 Year	NI 6060E/NI 6061E	DAQCard-6062E	NI 6060E/NI 6061E	DAQCard-6062E	NI 6060E/NI 6061E	DAQCard-6062E	NI 6060E/NI 6061E	DAQCard-6062E	NI 6060E/NI 6061E	DAQCard-6062E	NI 6060E/NI 6061E	DAQCard-6062E	
±10.0	0.0672	0.0714	6.38	9.83	4.640	6.100	0.846	0.975	0.0010	14.369	17.945	6.270	7.370	1.110	1.280
±5.0	0.0272	0.0314	3.20	4.92	2.320	3.050	0.423	0.488	0.0005	5.193	6.983	3.140	3.680	0.557	0.642
±2.5	0.0672	0.0714	1.61	2.47	1.160	1.530	0.211	0.244	0.0010	3.605	4.502	1.570	1.840	0.278	0.321
±1.0	0.0672	0.0714	0.653	1.001	0.464	0.610	0.085	0.098	0.0010	1.452	1.813	0.627	0.737	0.111	0.128
±0.5	0.0672	0.0714	0.335	0.511	0.232	0.305	0.042	0.049	0.0010	0.735	0.917	0.314	0.368	0.056	0.064
±0.25	0.0672	0.0714	0.176	0.266	0.116	0.208	0.021	0.029	0.0010	0.376	0.474	0.157	0.238	0.028	0.039
±0.1	0.0672	0.0714	0.081	0.119	0.068	0.098	0.010	0.012	0.0010	0.162	0.203	0.080	0.111	0.013	0.016
±0.05	0.0672	0.0714	0.049	0.070	0.049	0.071	0.006	0.008	0.0010	0.090	0.113	0.056	0.082	0.007	0.010
10 to 0	0.0272	0.0314	3.200	4.920	2.320	3.050	0.423	0.488	0.0005	6.765	8.555	3.140	3.68	0.557	0.642
5 to 0	0.0672	0.0714	1.610	2.470	1.160	1.530	0.211	0.244	0.0010	5.391	6.288	1.570	1.84	0.278	0.321
2 to 0	0.0672	0.0714	0.653	1.001	0.464	0.610	0.085	0.098	0.0010	2.167	2.528	0.627	0.737	0.111	0.128
1 to 0	0.0672	0.0714	0.335	0.511	0.232	0.305	0.042	0.049	0.0010	1.092	1.274	0.314	0.368	0.056	0.064
0.5 to 0	0.0672	0.0714	0.176	0.266	0.116	0.208	0.021	0.029	0.0010	0.554	0.653	0.157	0.238	0.028	0.039
0.2 to 0	0.0672	0.0714	0.081	0.119	0.068	0.098	0.010	0.012	0.0010	0.233	0.274	0.080	0.111	0.013	0.016
0.1 to 0	0.0672	0.0714	0.049	0.070	0.049	0.071	0.006	0.008	0.0010	0.126	0.149	0.056	0.082	0.007	0.010

Note: Accuracies are valid for measurements following an internal E Series Calibration. Averaged numbers assume dithering and averaging of 100 single-channel readings. Measurement accuracies are listed for operational temperatures within ±1 °C of internal calibration temperature and ±10 °C of external or factory-calibration temperature. One-year calibration interval recommended. The Absolute Accuracy at Full Scale calculations were performed for a maximum range input voltage (for example, 10 V for the ±10 V range) after one year, assuming 100 pt averaging of data. See overview on page 234 for example calculations.

Table 2. NI 606xE Analog Input Accuracy Specifications

Nominal Range (V)		Absolute Accuracy				Temp Drift (%/°C)		Absolute Accuracy at Full Scale (mV)	
		% of Reading			Offset (mV)			NI 6060E/NI 6061E	DAQCard-6062E
Positive FS	Negative FS	24 Hrs	90 Days	1 Year	NI 6060E/NI 6061E	DAQCard-6062E	NI 6060E/NI 6061E	DAQCard-6062E	
10	-10	0.0177	0.0197	0.0219	5.93	8.37	0.0005	8.127	10.568
10	0	0.0177	0.0197	0.0219	3.49	—	0.0005	5.685	—

Note: Temp Drift applies only if ambient is greater than ±10 °C of previous external calibration. See page 234 for example calculations.

Table 3. NI 606xE Analog Output Accuracy Specifications

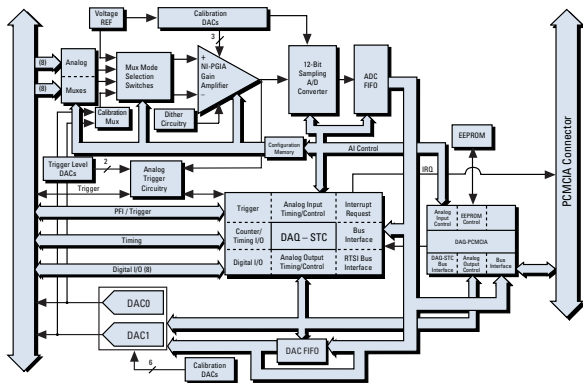


Figure 2. NI 6062E Hardware Block Diagram

See page 233 in the E Series Multifunction DAQ Overview for I/O connector diagrams.

See page 266 for more detailed specifications.

Ordering Information

NI 6060E	AT-MIO-16E-2	776791-01
NI 6061E	AT-MIO-64E-3	776911-01
NI 6062E	DAQCard-6062E	777976-01

Includes NI-DAQ driver software.

For information on extended warranty and value-added services, see page 22.

Recommended Configurations

Family	DAQ Device	Accessory	Cable
NI 6060E	AT-MIO-16E-2	SCB-68 (776844-01)	SH6868-EP (184749-01)
NI 6061E	AT-MIO-64E-3	SCB-100 (776990-01)	SH100100 (182853-01)
NI 6062E	DAQCard-6062E	SCB-68 (776844-01)	SHC6868-EP (186838-01)

See page 256 for E Series accessory and cable information.



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